AMENDMENT OF SOLICITA	TION/MODIFICA	TION OF CO	NTRA	T 1. CONT	TRACT ID CODE	PAGE(S) 1 of 3
2. AMENDMENT/MODIFICATION NO. 3	. EFFECTIVE DATE	4. REQUISITION	PURCHA	SE REQ. NO.	5. PROJECT NO.	(If applicable)
69	See Blk 16c	See Blk 14 A	s Appli	cable		
6. ISSUED BY		7. ADMINIS	STERED B	Y (If other than	Item 6)	
NASA		and the second s				
Goddard Space Flight Center		tomouth was				
Wallops Flight Facility		***************************************				
Wallops Island, VA 23337						
8. NAME AND ADDRESS OF CONTRACTO	R (No., street, county, Sta	ate and ZIP Code)	()	9A. AMENDMI	ENT OF SOLICITATION	ON NO.
The Cube Corporation						
45665 Willow Pond Plaza				96. DATED (SI	E ITEM 11)	
Sterling VA 20164						
				10A. MODIFIC	ATION OF CONTRA	CT/ORDER
			X	NO:	NAS5-01080	
CODE:	FACILITY CODE:		1	10B. DATED (SEE ITEM 13): 07-	26-01
11. THIS ITEM ONLY APPLI	ES TO AMENDMENTS	OF SOLICITAT	IONS			
The above numbered solicitation is amended	as set forth in Item 14. The	hour and date specif	ied for rec	eipt of Offers []	is extended, is not	extended.
(c) By separate letter or telegram which includes AT THE PLACE DESIGNATED FOR THE RECEIPT this amendment you desire to change an offer at the solicitation and this amendment, and is received. 12. ACCOUNTING ANI	OF OFFERS PRIOR TO THE Hiready submitted, such changived prior to the opening how DAPPROPRIATIO	HOUR AND DATA SPI te may be made by te rand date specified. IN DATA (II	CIFIED MA legram or l	NY RESULT IN RE etter, provided ea lired) Po	JECTION OF YOUR OF ach telegram or letter n	FER. If by virtue of
TOTAL ESTIMATED COST: \$84,07		 	,	 		
	EM APPLIES ONLY TO DIFIES THE CONTRAC				•	
() A. THIS CHANGE ORDER IS ISSU CONTRACT ORDER NO. IN ITEM	- •	cify authority) THE	CHANGE	S SET FORTH I	N ITEM 14 ARE MA	DE IN THE
B. THE ABOVE NUMBERED CONT office, appropriation date, etc.)						nges in paying
C. THIS SUPPLEMENTAL AGREE	MENT IS ENTERED INTO	PURSUANT TO AU	THORITY	OF:		***************************************
X D. OTHER (Specify type of modif	ication and authority) Un	ilateral 52 .	232-22	Limitation o	f Funds (APR 19) 84)
E. IMPORTANT: Contractor [X] is r				-	to be issued office.	
14. DESCRIPTION OF AMENDMENT/MOI Except as provided herein, all terms and conditions of						e feasible.)
1. The purpose of this modifical	tion is to provide incren	nental funding for	the subj	ect contract.		
	(Coi	ntinued on page 2)			

Pamela J. Taylor

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

BY

(Signature of person authorized to sign)

16C. DATE SIGNED

7/16/2003

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

BASELINE:

a. The total amount allotted for payment of cost is revised as follows:

From: \$26,566,837.69

By: \$00.00

To: \$26,566,837.69

b. The total amount allotted for fee is revised as follows:

From: \$1,546,218.00

By: \$00.00

To: \$1,546,218.00

IDIQ:

a. The total amount allotted for payment of cost is revised as follows:

From: \$19,124,959.85

By: \$74,892.19

To: \$19,199,852.04

b. The total amount allotted for fee is revised as follows:

From: \$1,113,111.86

By: \$4,358.81

To: \$1,117,470.67

c. The total amount allotted for payment of cost and fee is as follows:

From: \$48,351,127.40

By: \$79,251.00

To: \$48,430,378.40

Total amount of funds obligated per this modification is \$79,251.00

The period of performance covered by the allotted funding is 09/01/01 through approximately 10/03/2003.

Contract NAS5-01080 Modification 69 Page 3 of 3

3. ACCOUNTING AND APPROPRIATION DATA **OBLIGATE:**

IDIQ:

PR Number	$\underline{\mathrm{WBC}}$	<u>Fund</u>	Cost Cr	<u>Amt</u>	SOW/TO
4200020120	51-675-73-60	SAT292003D	514530	\$70,000.00	04-106-2003
4200019549	51-45-7951-01	SAT452002D	512051	\$ 9,251.00	08-23-2003

4. No other changes to the subject contract are made by issuance of this modification.

AM	ENDMENT OF SOLICIT	TATION/MODIFICA	TION OF CO	NTRA	CT 1. CC	NTRACT ID CODE	PAGE(S) 1 of 3
2. AME	ENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION	/PURCHA	ASE REQ. NO	5. PROJECT NO.	(If applicable)
	70	See Blk 16c	See Blk 14 A	s Appl	licable		
6. ISSI			7. ADMINI	STERED	BY (If other ti	han Item 6)	
	ASA						
	oddard Space Flight Cente	er					
	allops Flight Facility		***************************************				
W	allops Island, VA 23337						
8. NA N	ME AND ADDRESS OF CONTRAC	TOR (No., street, county, St.	ate and ZIP Code)	()	9A. AMEND	MENT OF SOLICITATION	ON NO.
Th	e Cube Corporation						
45	665 Willow Pond Plaza				9b. DATED	(SEE ITEM 11)	
Ste	erling VA 20164						
					10A. MODI	FICATION OF CONTRA	CT/ORDER
				X	NO:	NAS5-01080	
CODE:		FACILITY CODE:			10B. DATE) (SEE ITEM 13): 07-	26-01
	11. THIS ITEM ONLY APP	LIES TO AMENDMENTS	S OF SOLICITAT	ILI			
The	above numbered solicitation is amend		***************************************		ceipt of Offers	[] is extended, [] is not	extended.
this am the soli	PLACE DESIGNATED FOR THE RECE endment you desire to change an offectitation and this amendment, and is read 12. ACCOUNTING A AL ESTIMATED COST: \$84.	or already submitted, such chang eceived prior to the opening hou ND APPROPRIATIO	r and date specified. N DATA (I	elegram or f req	letter, provided	PC/BNC: BX/	
		ITEM APPLIES ONLY TO ODIFIES THE CONTRAC				•	
()	A. THIS CHANGE ORDER IS IS CONTRACT ORDER NO. IN ITE		cify authority) THE	CHANG	ES SET FORT	H IN ITEM 14 ARE MA	DE IN THE
	B. THE ABOVE NUMBERED CO office, appropriation date, etc						inges in paying
	C. THIS SUPPLEMENTAL AGR	EEMENT IS ENTERED INTO	PURSUANT TO AL	THORIT	Y OF:		
X	D. OTHER (Specify type of mo	dification and authority) Un	ilateral <mark>52</mark>	.232-22	2 Limitation	of Funds (APR 19	984)
	MPORTANT: Contractor [X] i				TOTAL AND THE CONTRACTOR OF TH	ies to be issued office.	
14. E Exce	DESCRIPTION OF AMENDMENT/IV pt as provided herein, all terms and condition:	IODIFICATION (Organized by L s of the document referenced in Item 9	<i>JCF section headings</i> A or 10A, as heretofore	<i>, including</i> changed, rer	<i>solicitation/co</i> mains unchanged a	ntract subject mater wher and in full force and effect,	e feasible.)
	1. The purpose of this modifi	cation is to provide incren	nental funding fo	r the sub	ject contract		
		(Con	ntinued on page 2	<u>!</u>)			
15A.	NAME AND TITLED OF SIGNER	(Type or print)	16A. NAMI Pamela J			RACTING OFFICER (Ty	rpe or print)

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

(Signature of Contracting Officer)

15B. CONTRACTOR/OFFEROR

(Signature of person authorized to sign)

16C. DATE SIGNED

7/24/2003

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

BASELINE:

a. The total amount allotted for payment of cost is revised as follows:

From: \$26,566,837.69

By: \$269,419.50

To: \$26,836,257.19

b. The total amount allotted for fee is revised as follows:

From: \$1,546,218.00

By: \$15,680.50

To: \$1,561,898.50

IDIQ:

a. The total amount allotted for payment of cost is revised as follows:

From: \$19,199,852.04

By: \$18,900.00

To: \$19,218,752.04

b. The total amount allotted for fee is revised as follows:

From: \$1,117,470.67

By: \$1,100.00

To: \$1,118,570.67

c. The total amount allotted for payment of cost and fee is as follows:

From: \$48,430,378.40

By: \$305,100.00

To: \$48,735,478.40

Total amount of funds obligated per this modification is \$305,100.00.

The period of performance covered by the allotted funding is 09/01/01 through approximately 10/07/2003.

Contract NAS5-01080 Modification 70 Page 3 of 3

3. ACCOUNTING AND APPROPRIATION DATA

OBLIGATE:

В	•	¢	4	l t	11	•	٠

PR Number	$\underline{\text{WBS}}$	Fund	Cost Cr	<u>Amt</u>	SOW/TO
4200021648	MPS	SAT292003D	519970000	\$285,100.00	15
IDIQ:					
PR Number	$\underline{\text{WBS}}$	<u>Fund</u>	Cost Cr	<u>Amt</u>	SOW/TO
4200021660	51R-622-91-U03	5-01 SAT292003R	518400	\$20,000.00	11-01-2003

4. No other changes to the subject contract are made by issuance of this modification.

	3. EFFECTIVE DATE	4. REQUISITION			5. PROJECT NO.	(If applicable)
71	See Blk 16c	See Blk 14 A	s App	licable		
. ISSUED BY		7. ADMINI	STERED	BY (If other than	n Item 6)	
NASA		10.00				
Goddard Space Flight Cen	ter					
Wallops Flight Facility						
Wallops Island, VA 2333	7					
. NAME AND ADDRESS OF CONTRA	CTOR (No., street, county,	State and ZIP Code)	()	9A. AMENDM	ENT OF SOLICITATI	ON NO.
The Cube Corporation						
45665 Willow Pond Plaza				9b. DATED (S	EE ITEM 11)	
Sterling VA 20164						
<u> </u>				10A. MODIFIC	ATION OF CONTRA	CT/ORDER
			X	NO:	NAS5-01080	
ODE: FACILITY CODE:					······	00.04
ODE:	FACILITY CODE:			10B. DATED	SEE ITEM 13): 07-	26-01
ODE: 11. THIS ITEM ONLY A		TS OF SOLICITAT	IONS	10B. DATED	(SEE ITEM 13): 0/-	26-01
11. THIS ITEM ONLY AI The above numbered solicitation is ame	PPLIES TO AMENDMEN nded as set forth in Item 14. Then the normal prior to the hour and	The hour and date speci-	fied for re	cceipt of Offers (is extended, lis no	t extended.
11. THIS ITEM ONLY AID The above numbered solicitation is amounted the above numbered solicitation is amounted that are completing Items 8 and 15, and returning By separate letter or telegram which incompleted the place DESIGNATED FOR THE RECOIST AMOUNTED FOR THE RECOIST	PPLIES TO AMENDMEN' Inded as set forth in Item 14. The mendment prior to the hour and copies of the amendment ludes a reference to the solicital EIPT OF OFFERS PRIOR TO THE ffer already submitted, such char received prior to the opening h AND APPROPRIATI	the hour and date speci- date specified in the so ent; (b) By acknowledgination and amendment nu E HOUR AND DATA SP ange may be made by to your and date specified. ION DATA (II	fied for re licitation ng receipt Imbers. I ECIFIED N Blegram o	cceipt of Offers (or a amended, by t of this amendment FAILURE OF YOUR MAY RESULT IN RI r letter, provided e	I is extended, I I is no one of the following ment on each copy of the ACKNOWLEDGEMENT EJECTION OF YOUR OF ach telegram or letter of the company of the comp	t extended. ethods: (a) By offer submitted; or TO BE RECEIVED FER. If by virtue o
11. THIS ITEM ONLY AID The above numbered solicitation is ame of the substitution of this and the substitution of the substitution of the substitution of the substitution of the substitution and this amendment, and is substitution and this amendment, and is a ACCOUNTING TOTAL ESTIMATED COST: \$8	PPLIES TO AMENDMEN' Inded as set forth in Item 14. The endment prior to the hour and copies of the amendment under a reference to the solicitate of the soli	the hour and date specified in the so ent; (b) By acknowledging ation and amendment as E HOUR AND DATA SP ange may be made by teleprour and date specified. ION DATA (I.S.)	fied for re licitation ng receipt imbers. I ECIFIED M elegram o F rec NG: \$4	occeipt of Offers (or a amended, by t of this amendment FALLURE OF YOUR MAY RESULT IN RI r letter, provided e Quired) P 19,115,683.44	is extended, I is no one of the following ment on each copy of the ACKNOWLEDGEMENT EJECTION OF YOUR OF ach telegram or letter (C/BNC: BX,	t extended. ethods: (a) By offer submitted; of TO BE RECEIVED FER. If by virtue c makes reference to
11. THIS ITEM ONLY AI The above numbered solicitation is ame offers must acknowledge receipt of this an completing Items 8 and 15, and returning c) By separate letter or telegram which inc AT THE PLACE DESIGNATED FOR THE REC his amendment you desire to change an or he solicitation and this amendment, and is 12. ACCOUNTING TOTAL ESTIMATED COST: \$8	PPLIES TO AMENDMEN' Inded as set forth in Item 14. The mendment prior to the hour and copies of the amendment ludes a reference to the solicital EIPT OF OFFERS PRIOR TO THE ffer already submitted, such char received prior to the opening h AND APPROPRIATI	the hour and date specified in the so ent; (b) By acknowledging atton and amendment and E HOUR AND DATA SP ange may be made by the sour and date specified. ION DATA (I: ONTRACT FUNDITO MODIFICATIO	fied for re licitation ing receipt imbers. I ECIFIED N Blegram o F rec NG: \$4	occipt of Offers (or a amended, by t of this amendments FAILURE OF YOUR MAY RESULT IN RI r letter, provided e Quired) P 19,115,683.40 CONTRACTS	I is extended, I I is no one of the following ment on each copy of the ACKNOWLEDGEMENT EJECTION OF YOUR OF ach telegram or letter (C/BNC: BX,)	t extended. ethods: (a) By offer submitted; of TO BE RECEIVED FER. If by virtue c makes reference to
11. THIS ITEM ONLY AI The above numbered solicitation is ame offers must acknowledge receipt of this an ompleting Items 8 and 15, and returning c) By separate letter or telegram which inc T THE PLACE DESIGNATED FOR THE REC his amendment you desire to change an or he solicitation and this amendment, and is 12. ACCOUNTING TOTAL ESTIMATED COST: \$8	PPLIES TO AMENDMEN' Inded as set forth in item 14. The endment prior to the hour and copies of the amendment under a reference to the solicitate of the soli	the hour and date specified in the so ent; (b) By acknowledging ation and amendment as E HOUR AND DATA SP ange may be made by the sour and date specified. ION DATA (I. ONTRACT FUNDITION MODIFICATION ACT/ORDER NO. ACT/ORDER NO	fied for reflictation no receipt mbers. If ECIFIED Nelsegram of the CNG: \$4 NS OF AS DES	or a amended, by the of this amendment of this amendment of YOUR MAY RESULT IN RIGHT (Parties, provided expuring) Properties of the contracts of the contract of the contrac	I is extended, I is no one of the following ment on each copy of the ACKNOWLEDGEMENT EJECTION OF YOUR OF ach telegram or letter (C/BNC: BX, C) /ORDERS, EM 14.	t extended. ethods: (a) By offer submitted; or TO BE RECEIVED FER. If by virtue on makes reference to
11. THIS ITEM ONLY AND ITEM AN	PPLIES TO AMENDMEN' Inded as set forth in Item 14. The mendment prior to the hour and copies of the amendment prior to the solicital celet of FERS PRIOR TO THE fer already submitted, such characteristic prior to the opening hand appropriate to the openin	the hour and date specified in the so ent; (b) By acknowledgination and amendment nutries to the HOUR AND DATA Spange may be made by the sour and date specified. ION DATA (I. ONTRACT FUNDITY TO MODIFICATION ACT/ORDER NO. ACT/	licitation ing receipt imbers. If ECIFIED Melegram of	or a amended, by the of this amendment of this amendment of this amendment of the original original original of the original o	I is extended, I I is no one of the following ment on each copy of the ACKNOWLEDGEMENT EJECTION OF YOUR OF ach telegram or letter of the company of the comp	t extended. ethods: (a) By offer submitted; or TO BE RECEIVED FER. If by virtue c makes reference to
11. THIS ITEM ONLY AI The above numbered solicitation is ame ffers must acknowledge receipt of this an empleting Items 8 and 15, and returning By separate letter or telegram which inc THE PLACE DESIGNATED FOR THE RECeis is amendment you desire to change an or ne solicitation and this amendment, and is 12. ACCOUNTING TOTAL ESTIMATED COST: \$8 13. THI IT () A. THIS CHANGE ORDER IS CONTRACT ORDER NO. IN IT B. THE ABOVE NUMBERED COST	PPLIES TO AMENDMEN' Inded as set forth in Item 14. The mendment prior to the hour and copies of the amendment under a reference to the solicitate of the sol	the hour and date specified in the so ent; (b) By acknowledgination and amendment number of the HOUR AND DATA SPANGE ON TRACT FUNDITO MODIFICATION ACT/ORDER NO. ACT/ORDER	fied for religional field for receipt mbers. If ECIFIED Melegram of the field from the field fro	or a amended, by the of this amendment of this amendment. The of this amendment. The or the o	I is extended, I I is no one of the following ment on each copy of the ACKNOWLEDGEMENT EJECTION OF YOUR OF ach telegram or letter of the company of the comp	t extended. ethods: (a) By offer submitted; or TO BE RECEIVED FER. If by virtue c makes reference to
11. THIS ITEM ONLY AI The above numbered solicitation is ame iffers must acknowledge receipt of this an impleting Items 8 and 15, and returning By separate letter or telegram which inc THE PLACE DESIGNATED FOR THE REC is amendment you desire to change an or e solicitation and this amendment, and is 12. ACCOUNTING TOTAL ESTIMATED COST: \$8 13. THI IT () A. THIS CHANGE ORDER IS CONTRACT ORDER NO. IN IT B. THE ABOVE NUMBERED CO office, appropriation date, of	PPLIES TO AMENDMEN' Inded as set forth in item 14. The mendment prior to the hour and copies of the amendment prior to the solicitate in t	date specified in the so ent; (b) By acknowledgination and amendment nu E HOUR AND DATA SPange may be made by te sour and date specified. ION DATA (I: ONTRACT FUNDITO MODIFICATION ACT/ORDER NO. ACT	licitation in greceipt imbers. If ECIFIED Melegram of the Control	or a amended, by the of this amendment of this amendment of this amendment of the original of this amendment of the original of this amendment of the original origi	I is extended, I I is no one of the following ment on each copy of the ACKNOWLEDGEMENT EJECTION OF YOUR OF ach telegram or letter of the company of the comp	ethods: (a) By offer submitted; or TO BE RECEIVED FER. If by virtue on makes reference to
11. THIS ITEM ONLY AND ITEM AN	PPLIES TO AMENDMEN' Inded as set forth in Item 14. The mendment prior to the hour and copies of the amendment prior to the solicitate of t	date specified in the so ent; (b) By acknowledgination and amendment nu E HOUR AND DATA SPange may be made by te sour and date specified. ION DATA (I: ONTRACT FUNDITO MODIFICATION ACT/ORDER NO. ACT	fied for reflictation ng receiptions. If execution the second of the sec	or a amended, by the of this amendment of this amendment of the provided experience of the provided ex	I is extended, I I is no one of the following ment on each copy of the ACKNOWLEDGEMENT EJECTION OF YOUR OF ach telegram or letter of the company of the comp	ethods: (a) By offer submitted; or TO BE RECEIVED FER. If by virtue on makes reference to

(Continued on page 2)

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Pamela J. Taylor			
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED 8/5/2003		
		BY			
(Signature of person authorized to sign)		(Signature of Contracting Officer)			

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

BASELINE:

a. The total amount allotted for payment of cost is revised as follows:

From: \$26,836,257.19

By: \$332,734.50

To: \$27,168,991.69

b. The total amount allotted for fee is revised as follows:

From: \$1,561,898.50

By: \$19,365.50

To: \$1,581,264.00

IDIQ:

a. The total amount allotted for payment of cost is revised as follows:

From: \$19,218,752.04

By: \$26,559.22

To: \$19,245,311.26

b. The total amount allotted for fee is revised as follows:

From: \$1,118,570.67

By: \$1,545.78

To: \$1,120,116.45

c. The total amount allotted for payment of cost and fee is as follows:

From: \$48,735,478.40

By: \$380,205.00

To: \$49,115,683.40

Total amount of funds obligated per this modification is \$380,205.00.

The period of performance covered by the allotted funding is 09/01/01 through approximately 10/12/2003.

3. ACCOUNTING AND APPROPRIATION DATA **OBLIGATE:**

*						
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L)	æ	3		ш	11	

PR Number	$\underline{\mathrm{WBS}}$	<u>Fund</u>	Cost Cr	<u>Amt</u>	SOW/TO
4200023132	MPS	SAT292003D	519970000	\$111,200.00	2
4200023528-1	MPS	SAT292003D	519970000	\$118,500.00	8
4200023528-2	MPS	SAT292003D	519970000	\$18,770.00	7
4200023528-3	51-788-10-00	HSF542003D	512051	\$27,000.00	8
4200023528-4	51-773-10-00	SAT292003D	512051	\$10,130.00	7
4200023528-5	51-773-10-00	SAT292003D	512051	\$66,500.00	8

IDIQ:

PR Number	$\underline{ ext{WBS}}$	<u>Fund</u>	Cost Cr	<u>Amt</u>	SOW/TO
4200023020	51-39-2051-09	SAT392002D	512280	\$5,437.00	02-28-2002
4200023381	MPS	SAT292003D	519970000	\$10,568.00	02-10-2003
4200023632	MPS	SAT292003D	519970000	\$10,000.00	05-05-2003
4200023942	51-37-6051-45	MS372001D	512280	\$3,600.00	05-02-2003

DEOBLIGATE:

IDIQ:

PCN Number	$\underline{ ext{WBS}}$	<u>PLI</u>		<u>ALI</u>	<u>Amt</u>	<u>SOW/TO</u>
840-60864A	5124-436-12-01-01	11	44	\$1	,000,000	04-12-2003
840-60864A	5124-436-12-01-01	11	44	\$5	00.00	04-12-2003

4. No other changes to the subject contract are made by issuance of this modification.

AMENDMENT OF SOLICI	TATION/MODIFICA	TION OF COI	VTRA	CT 1. CONT	TRACT ID CODE	PAGE(S) 1 of 3
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/	PURCH	ASE REQ. NO.	5. PROJECT NO. /	(If applicable)
72	See Blk 16c	See Blk 14 A	s App	licable		
6. ISSUED BY		7. ADMINIS	TERED	BY (If other than	Item 6)	
NASA						
Goddard Space Flight Cent	er					
Wallops Flight Facility						
Wallops Island, VA 23337	,					
8. NAME AND ADDRESS OF CONTRAC	TOR (No., street, county, S	tate and ZIP Code)	()	9A. AMENDMI	ENT OF SOLICITATIO	ON NO.
The Cube Corporation						
45665 Willow Pond Plaza				9b. DATED (SI	EE ITEM 11)	
Sterling VA 20164						
Stering VI 20104				10A. MODIFIC	ATION OF CONTRAC	CT/ORDER
				NO:	NAS5-01080	
0007			X		***************************************	
CODE:	FACILITY CODE:			10B. DATED (SEE ITEM 13): 07-2	26-01
11. THIS ITEM ONLY API	PLIES TO AMENDMENT	S OF SOLICITAT	IONS			
[] The above numbered solicitation is amen	ded as set forth in Item 14. Th	e hour and date specifi	ed for re	ceipt of Offers []	is extended, is not	extended.
completing Items 8 and 15, and returning	ides a reference to the solicitation. IPT OF OFFERS PRIOR TO THE erral ready submitted, such chan eccived prior to the opening how ND APPROPRIATION.	on and amendment nur HOUR AND DATA SPE go may be made by tel ur and date specified. ON DATA (If	nbers. f CIFIED N egram o	FAILURE OF YOUR MAY RESULT IN RE r letter, provided ea Tuired) P(ACKNOWLEDGEMENT JECTION OF YOUR OFF sch telegram or letter m C/BNC: BX/	TO BE RECEIVED FER. If by virtue of takes reference to
TOTAL ESTIMATED COST: \$84	***************************************	~~				
	ITEM APPLIES ONLY T IODIFIES THE CONTRA					
() A. THIS CHANGE ORDER IS IS CONTRACT ORDER NO. IN ITE		ecify authority) THE	CHANG	ES SET FORTH I	N ITEM 14 ARE MAI	DE IN THE
B. THE ABOVE NUMBERED CO office, appropriation date, et	ONTRACT/ORDER IS MODIFI c.) SET FORTH IN ITEM 14,	ED TO REFLECT THE PURSUANT TO THE	E ADMI AUTH	NISTRATIVE CHA ORITY OF FAR 4	ANGES (such as cha 2.103(b).	nges in paying
C. THIS SUPPLEMENTAL AGE	REEMENT IS ENTERED INTO	PURSUANT TO AU	THORIT	Y OF:		
X D. OTHER (Specify type of mo	odification and authority) UI	nilateral 52 .	232-2	2 Limitation o	f Funds (APR 19	(84)
E. IMPORTANT: Contractor [X]				AAAAAAAAAAA	to be issued office.	
14. DESCRIPTION OF AMENDMENT/N Except as provided herein, all terms and condition	MODIFICATION (Organized by softhe document referenced in Item:	<i>UCF section headings,</i> 9A or 10A, as heretofore ch	<i>includin</i> nanged, re	g solicitation/contra mains unchanged and i	nct subject mater where n full force and effect.	feasible.)
1. The purpose of this modifi						
	(Co	ntinued on page 2)	ŀ			

15A. NAME AND TITLED OF SIGNER (Type or print)
Pamela J. Taylor

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

8/14/2003

BY
(Signature of person authorized to sign)

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

BASELINE:

a. The total amount allotted for payment of cost is revised as follows:

From: \$27,168,991.69

By: \$934,212,82

To: \$28,103,204.51

b. The total amount allotted for fee is revised as follows:

From: \$1,581,264.00

By: \$54,372.18

To: \$1,635,636.18

IDIQ:

a. The total amount allotted for payment of cost is revised as follows:

From: \$19,245,311.26

By: \$358,310.92

To: \$19,603,622.18

b. The total amount allotted for fee is revised as follows:

From: \$1,120,116.45

By: \$20,854.08

To: \$1,140,970.53

c. The total amount allotted for payment of cost and fee is as follows:

From: \$49,115,683.40

By: \$1,367,750.00

To: \$50,483,433.40

Total amount of funds obligated per this modification is \$1,367,750.00.

The period of performance covered by the allotted funding is 09/01/01 through approximately 10/29/2003.

3. ACCOUNTING AND APPROPRIATION DATA **OBLIGATE:**

R	3 6	eli	n	Α.
			**	••

Dascine.					
PR Number	WBS	<u>Fund</u>	Cost Cr	<u>Amt</u>	SOW/TO
4200023162-2	51-773-10-00	SAT292003D	512051	\$169,000.00	10
4200023162-5	MPS	SAT292003D	519970000	\$20,500.00	10
4200024874	MPS	SAT292003D	519970000	\$680,732.00	3
4200024893	MPS	SAT292003D	519970000	\$118,353.00	6
IDIQ:					
PR Number	$\underline{\text{WBS}}$	<u>Fund</u>	Cost Cr	<u>Amt</u>	SOW/TO
4200023162-3	MPS	SAT292003D	519970000	\$221,500.00	10-12-2003
4200023162-4	MPS	SAT292003D	519970000	\$46,155.00	10-21-2003
4200023940	51-39-2051-06	SAT392002D	512280	\$750.00	02-30-2002
4200023975	51-39-2051-08	SAT392002D	512280	\$1,800.00	02-29-2002
4200023978	51-39-2051-10	SAT392002D	512280	\$1,500.00	02-27-2002
4200023991	51-39-2051-09	SAT392002D	512280	\$2,701.00	02-28-2002
4200024784	MPS	SAT292003D	519970000	\$10,700.00	05-02-2003
4200024788	51-773-10-00	SAT292003D	512280	\$38,500.00	05-02-2003
4200024815	51-773-10-00	SAT292003D	512280	\$22,500.00	05-04-2003
4200024820	51-773-10-00	SAT292003D	512280	\$21,000.00	05-05-2003
4200025178	MPS	SAT292003D	519970000	\$1,343.00	02-15-2003
4200025302	MPS	SAT292003D	519970000	\$10,716.00	02-36-2003

^{4.} No other changes to the subject contract are made by issuance of this modification.

AMENDMENT OF SOLICITAT	ION/MODIFICAT	TION OF CO	NTRA	CT	1. CONT	RACT ID CODE		PAGE(S) 1 of 3
I								
73 Se	e Blk 16c	See Blk 14 A	s App	licable	•			
6. ISSUED BY		7. ADMINIS	TERED	BY (If o	ther than	ltem 6)		
NASA								
Goddard Space Flight Center								
Wallops Flight Facility		***						
Wallops Island, VA 23337		10.000 A.A.A.A.						
8. NAME AND ADDRESS OF CONTRACTOR	(No., street, county, Sta	te and ZIP Code)	()	9A. A	MENDME	NT OF SOLICIT	ATION	i NO.
The Cube Corporation								
45665 Willow Pond Plaza				9b. D	ATED (SE	E ITEM 11)		,
Sterling VA 20164								
<u>-</u>				10A.	MODIFICA	TION OF CON	TRACT	/ORDER
			X	N	10:	NAS5-0108	0	
CODE:	FACILITY CODE:		A	10B. I	DATED (S	EE ITEM 13):	ม: 07-26-01	
11. THIS ITEM ONLY APPLIES	TO AMENDMENTS	OF SOLICITAT	L IONS	l				
The above numbered solicitation is amended as				ceipt of (Offers i	s extended, [] is	not ex	rtended.
completing Items 8 and 15, and returning (c) By separate letter or telegram which includes a AT THE PLACE DESIGNATED FOR THE RECEIPT Of this amendment you desire to change an offer alrea the solicitation and this amendment, and is receive 1.2. ACCOUNTING AND TOTAL ESTIMATED COST: \$84,078,	reference to the solicitation of OFFERS PRIOR TO THE Hiddy submitted, such changed prior to the opening hour APPROPRIATION	and amendment nur OUR AND DATA SPE may be made by tel and date specified. N DATA (If	nbers. F. CIFIED M egram or	ALURE (MAY RESI Pletter, p	OF YOUR A ULT IN REJ rovided ead ed) PC	CKNOWLEDGEM ECTION OF YOUR the telegram or let	ENT TO) BE RECEIVED R. If by virtue of ces reference to
	A APPLIES ONLY TO FIES THE CONTRAC							PARTY CONTRACTOR CONTR
() A. THIS CHANGE ORDER IS ISSUED CONTRACT ORDER NO. IN ITEM 10		ify authority) THE	CHANG	ES SET	FORTH IN	I ITEM 14 ARE	MADE	IN THE
B. THE ABOVE NUMBERED CONTRA office, appropriation date, etc.) SE	CT/ORDER IS MODIFIEI T FORTH IN ITEM 14, P	O TO REFLECT THE URSUANT TO THE	E ADMIN	VISTRA DRITY O	TIVE CHA F FAR 42	NGES (such as .103(b).	chang	es in paying
C. THIS SUPPLEMENTAL AGREEMI	NT IS ENTERED INTO P	URSUANT TO AU	THORIT	Y OF:				
X D. OTHER (Specify type of modifica	tion and authority) Uni	llateral 52 .	232-22	2 Limit	ation of	Funds (APF	198	4)
E. IMPORTANT: Contractor [X] is not						o be issued offi		
14. DESCRIPTION OF AMENDMENT/MODIF Except as provided herein, all terms and conditions of the	ICATION (Organized by Ut document referenced in Item 9A	CF section headings,	including	solicitat	ion/contrac	t subject mater v	vhere fe	easible.)
1. The purpose of this modificatio						ran terce and erfect.		
	(Con	tinued on page 2)	ı					
15A. NAME AND TITLED OF SIGNER (Type	or print)	16A. NAME Pamela J.			CONTRAC	TING OFFICER	(Туре	or print)
15B. CONTRACTOR/OFFEROR	15C, DATE SIGNE	D 16B. UNITED	STATE	S OF A	MERICA		16C.	DATE SIGNED
	***************************************	BY					8/26/	/2003

(Signature of person authorized to sign)

(Signature of Contracting Officer)

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

BASELINE:

a. The total amount allotted for payment of cost is revised as follows:

From: \$28,103,204.51

By: \$460,893.51

To: \$28,564,098.02

b. The total amount allotted for fee is revised as follows:

From: \$1,635,636.18

By: \$26,824.49

To: \$1,662,460.67

IDIQ:

a. The total amount allotted for payment of cost is revised as follows:

From: \$19,603,622.18

By: \$29,073.87

To: \$19,632,696.05

b. The total amount allotted for fee is revised as follows:

From: \$1,140,970.53

By: \$1,692.13

To: \$1,142,662.66

c. The total amount allotted for payment of cost and fee is as follows:

From: \$50,483,433.40

By: \$518,484.00

To: \$51,001,917.40

Total amount of funds obligated per this modification is \$518,484.00.

The period of performance covered by the allotted funding is 09/01/01 through approximately 11/03/2003.

Contract NAS5-01080 Modification 73 Page 3 of 3

3. ACCOUNTING AND APPROPRIATION DATA **OBLIGATE:**

Dascinic.					
PR Number	$\underline{ ext{WBS}}$	<u>Fund</u>	Cost Cr	<u>Amt</u>	SOW/TO
4200026827	51-773-10-00	SAT292003D	512930	\$9,890.00	14
4200026827	51-773-10-00	SAT292002D	512960	\$4,496.00	12
4200026842	MPS	HSF542002D	519970000	\$473,332.00	11
IDIQ:					
PR Number	$\underline{ ext{WBS}}$	<u>Fund</u>	Cost Cr	<u>Amt</u>	SOW/TO
4200025799	51-879-85-53	SAT292003D	518100	\$4,000.00	08-12-2003
4200026826	51-773-10-00	SAT292002D	51-1300	\$4,500.00	14-01-2003
4200026826	51-788-10-00	HSF542002D	51-1300	\$22,266.00	14-01-2003

^{4.} No other changes to the subject contract are made by issuance of this modification.

AMENDMENT OF SOLICIT	ATION/MODIFICA	TION OF C	ONTRA	ACT	1. CONT	RACT ID CODE		PAGE(S) 1 of 4
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION	N/PURCH	ASE RE	Q. NO.	5. PROJECT I	NO. (If a	applicable)
74	See Blk 16c	See Blk 14	As App	plicable)			
6. ISSUED BY		7. ADMI	NISTERED	BY (If o	ther than	ltem 6)		
NASA		:						
Goddard Space Flight Cente	r	ļ						
Wallops Flight Facility								
Wallops Island, VA 23337								
8. NAME AND ADDRESS OF CONTRACT	OR (No., street, county, St.	ate and ZIP Code	e) ()	9A. A	MENDME	NT OF SOLICIT	ATION	NO.
The Cube Corporation								
45665 Willow Pond Plaza				9b. D.	ATED (SE	E ITEM 11)		····
Sterling VA 20164				***				
~				10A.	MODIFICA	TION OF CON	TRACT	ORDER
			X	,	10:	NAS5-0108	80	
CODE:	FACILITY CODE:			10B. I	DATED (S	EE ITEM 13):	07-26	-01
11. THIS ITEM ONLY APPI	LIES TO AMENDMENTS	OF SOLICITA	ATIONS				***************************************	
The above numbered solicitation is amende				eceipt of	Offers i	s extended, [] is	s not ext	tended.
Offers must acknowledge receipt of this amen completing Items 8 and 15, and returning	copies of the amendment es a reference to the solicitatio PT OF OFFERS PRIOR TO THE Halready submitted, such chang seived prior to the opening hour	; (b) By acknowled n and amendment HOUR AND DATA : te may be made by r and date specifie	ging receip numbers. SPECIFIED I telegram o d.	ot of this a FAILURE (MAY RESI or letter, p	imendment OF YOUR A ULT IN REJ rovided ea	on each copy of CKNOWLEDGEM ECTION OF YOU Ch telegram or let	the offe ENT TO R OFFER ter make	er submitted; or BE RECEIVED R. If by virtue of es reference to
12. ACCOUNTING AN		·				:/BNC: E	3X/G	F.G
TOTAL ESTIMATED COST: \$84,0								
	TEM APPLIES ONLY TO DDIFIES THE CONTRAC							
() A. THIS CHANGE ORDER IS ISS CONTRACT ORDER NO. IN ITEM		cify authority) Ti	HE CHANG	GES SET	FORTH IN	ITEM 14 ARE	MADE	IN THE
B. THE ABOVE NUMBERED CON office, appropriation date, etc.							change	es in paying
C. THIS SUPPLEMENTAL AGRE	EMENT IS ENTERED INTO I	PURSUANT TO	AUTHORIT	TY OF:				
X D. OTHER (Specify type of mod	lification and authority) Un	ilateral 5	2.232-2	2 Limit	ation of	Funds (APF	1984	4)
E. IMPORTANT: Contractor X is						o be issued offi		
14. DESCRIPTION OF AMENDMENT/Mo Except as provided herein, all terms and conditions	ODIFICATION (Organized by Use of the document referenced in Item 9	<i>ICF section headin</i> A or 10A, as heretofo	gs, includin e changed, re	ng solicitat emains unch	<i>tion/contrac</i> nanged and in	t subject mater v	vhere fe	asible.)
1. The purpose of this modific								
The purpose of this modifie	and to to provide more	iona raname	or the su	oject co.	iniaci,			
	(Cor	ntinued on page	: 2)					
15A. NAME AND TITLED OF SIGNER //	Type or print!	16A NAS	7 C140 30	TI E OF	CONTRA	TILO OFFICE	/T-	
		James l			CONTRAC	TING OFFICER	(Type	or print)
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNI	ED 16B. UNI	TED STAT	ES OF A	MERICA		16C . 9/17/:	DATE SIGNED 2003

(Signature of person authorized to sign)

(Signature of Contracting Officer)

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

BASELINE:

a. The total amount allotted for payment of cost is revised as follows:

From: \$28,564,098.02

By: \$408,132.27

To: \$28,972,230.29

b. The total amount allotted for fee is revised as follows:

From: \$1,662,460.67

By: \$23,753.73

To: \$1,686,214.40

IDIQ:

a. The total amount allotted for payment of cost is revised as follows:

From: \$19,632,696.05

By: \$586,397.03

To: \$20,219,093.08

b. The total amount allotted for fee is revised as follows:

From: \$1,142,662.66

By: \$34,128.92

To: \$1,176,791.58

c. The total amount allotted for payment of cost and fee is as follows:

From: \$51,001,917.40

By: \$1,052,411.95

To: \$52,054,329.35

Total amount of funds obligated per this modification is \$1,052,411.95.

The period of performance covered by the allotted funding is 09/01/01 through approximately 11/14/2003.

Contract NAS5-01080 Modification 74 Page 3 of 4

3. ACCOUNTING AND APPROPRIATION DATA **OBLIGATE:**

PR Number	$\underline{\mathrm{WBS}}$	<u>Fund</u>	Cost Cr	<u>Amt</u>	SOW/TO
4200030810	51R-771-50-U067-01	SAT292003R	512000	\$35,000.00	3
4200030661	51R-771-50-U031-01	SAT292003R	512000	\$7,000.00	2
4200030661	51R-771-50-U031-01	SAT292003R	512000	\$188,625.00	3
4200030661	51R-771-50-U031-01	SAT292003R	512000	\$15,000.00	6
4200030661	51R-771-50-U031-01	SAT292003R	512000	\$15,000.00	7
4200030661	51R-771-50-U031-01	SAT292003R	512000	\$1,375.00	9
4200030661	51R-771-50-U031-01	SAT292003R	512000	\$91,886.00	10
4200030661	51R-771-50-U031-01	SAT292003R	512000	\$7,000.00	12
4200030661	51R-771-50-U031-01	SAT292003R	512000	\$11,000.00	14
4200030661	51R-771-50-U031-01	SAT292003R	512000	\$60,000.00	15

IDIQ:

PR Number	WBS	<u>Fund</u>	Cost Cr	Amt	SOW/TO
4200030170	51-38-9760-02	MS382001D	512200	\$40,000.00	02-14-2002
4200030170	51-38-9760-02	MS382001D	512200	\$41,703.00	02-39-2003
4200030882	51-773-10-00	SAT292003D	512010	\$2,000.00	14-03-2003
4200030882	51-773-10-00	SAT292003D	512010	\$8,000.00	14-02-2004
4200030882	51-622-47-11	SAT292003D	519710	\$20,727.00	04-157-2003
4200030882	51-773-10-00	SAT292003D	512310	\$500.00	10-02-2004
4200030882	51-353-87-01-01	SAT292003D	518200	\$13,500.00	04-58-2003
4200030882	51-353-87-01-01	SAT292003D	518200	\$3,180.95	04-20-2003
4200030882	51-353-87-01-01	SAT292003D	518200	\$5,000.00	04-36-2003
4200027733	MPS	SAT292003R	519970000	\$500.00	02-10-2003
4200027733	MPS	SAT292003R	519970000	\$27,000.00	02-12-2003
4200027733	MPS	SAT292003R	519970000	\$7,500.00	02-14-2003
4200027733	MPS	SAT292003R	519970000	\$2,300.00	02-17-2003
4200027733	MPS	SAT292003R	519970000	\$5,400.00	02-19-2003
4200027733	MPS	SAT292003R	519970000	\$20,000.00	04-63-2003
4200030462	MPS	SAT292003R	519970000	\$190,843.00	02-83-2003
4200030462	MPS	SAT292003R	519970000	\$20,000.00	02-81-2003
4200030462	MPS	SAT292003R	519970000	\$24,485.00	04-167-2003
4200030810	51R-771-50-3437-30	SAT292003R	512000	\$22,500.00	03-01-2003
4200030810	51R-771-50-3441-30	SAT292003R	512000	\$10,000.00	05-09-2003
4200030277	MPS	SAT292003R	519970000	\$35,000.00	04-63-2003
4200030277	MPS	SAT292003R	519970000	\$5,748.00	04-30-2002
4200030277	MPS	SAT292003R	519970000	\$7,900.00	02-34-2003
4200030277	MPS	SAT292003R	519970000	\$20,000.00	02-01-2004
4200030661	51R-771-50-U031-01	SAT292003R	512000	\$4,900.00	02-02-2003
4200030661	51R-771-50-U031-01	SAT292003R	512000	\$17,000.00	04-03-2003

IDIQ:

PR Number	WBS	<u>Fund</u>	Cost Cr	<u>Amt</u>	SOW/TO
4200030661 5	1R-771-50-U031-01	SAT292003R	512000	\$1,500.00	04-28-2003
4200030661 51	IR-771-50-U031-01	SAT292003R	512000	\$3,000.00	04-108-2003
4200030661 53	1R-771-50-U031-01	SAT292003R	512000	\$3,900.00	04-152-2003
4200030661 5	IR-771-50-U031-01	SAT292003R	512000	\$20,000.00	14-02-2003
4200030661 51	IR-771-50-U031-01	SAT292003R	512000	\$5,139.00	14-12-2003
4200030661 5	1R-771-50-U031-01	SAT292003R	512000	\$31,300.00	15-02-2003

4. No other changes to the subject contract are made by issuance of this modification.

AMENDMENT OF SOLICI	TATION/MODIFICA	TION OF CO	NTRA	ACT	1. CONT	RACT ID COD	E	PAGE(S)
2 AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION	PURCH	ASE REQ	NO.	5. PROJECT	NO. (If	applicable)
75	See Blk 16c	See Blk 14 A	s App	olicable	1		`	
SUED BY		7. ADMINIS	TERED	BY (If oth	er than	item 6)		
NASA				·		,		
Goddard Space Flight Center	er							
Wallops Flight Facility								
Wallops Island, VA 23337	,							
*		7						
8. NAME AND ADDRESS OF CONTRACT	TOR (No. street, county, Str	ate and ZIP Code)	Τ()	OA AMI	ENDMER	NT OF SOLICI	LATION	NO
	(,			J. C. J. Ville	m-(4 m- / F1 hc.)	TO OOLION	AHQII	140.
The Cube Corporation	4							
45665 Willow Pond Plaza			<u> </u>	9b. DAT	TED (SEI	EITEM 11)		
Sterling VA 20164					(+			
Stermig VA 20104				104 840	ODIEICA	TION OF CON	TO 10 TO	מחתה
•				NO:		AS5-01080		OKDEK
			X	,,,,,		**************************************	J	
CODE:	FACILITY CODE:			10B. DA	TED (S	EE ITEM 13): (07-26-0)1
14 THE STREET		0 0 0 0 1 1 0 1 T 1 T 1	<u> </u>	<u> </u>	~~~		·····	
11. THIS ITEM ONLY APPI								
[] The above numbered solicitation is amended								
Offers must acknowledge receipt of this amendm	nent prior to the hour and date spec	cified in the solicitation	or a ame	nded, by on	e of the fa	llowing methods:	(a) By c	ompleting Items
telegram which includes a reference to the solicit	nendment; (b) By acknowledging relation and amendment numbers. F	All LIRE OF YOUR AC	KNIMI	EDGEMENT	TTABER	こうしょく へいいん	EDIACI	DEDIGNATED
FUR THE RECEIPT OF OFFERS PRIOR TO TH	IE HOUR AND DATA SPECIFIED.	MAY RESULT IN REA	FOTION :	OF YOUR C	Jeann 16	by wirtue of this a	mandma	et sous de aires és
change an offer already submitted, such change received prior to the opening hour and date coec	may be made by telepram or letter	r, provided each telegra	am or lette	er makes rel	ference to	the solicitation ar	nd this an	nendment, and is
12. ACCOUNTING A		N DATA (If	rec	nuired	I) PC	/BNC: F	BX/GI	r(Ç
TAL ESTIMATED COST: \$84,0						,	~ 1 1 1 1	- 4.0
	TEM APPLIES ONLY TO					PUES		
IT MC	DDIFIES THE CONTRAC	T/ORDER NO. A	S DES	CRIBED	INITE	M 14.		
() A. THIS CHANGE ORDER IS ISS CONTRACT ORDER NO. IN ITE	M 10A.	ary authority) THE C	HANGE	SSEIFO	RIHINI	TEM 14 ARE N	MADE IN	ITHE
					•			
B. THE ABOVE NUMBERED CO	NTRACT/ORDER IS MODIFIE	ED TO REFLECT TH	IE ADM	INISTRAT	IVE CHA	NGES (such a	s chang	es in paying
office, appropriation date, etc.)	SELFORITIN HEW 14, PUR	COUANT TO THE AL	JIHORI	IY-OF FA	IR 42.103	3(b).		
C. THIS SUPPLEMENTAL AGRI	EEMENT IS ENTERED INTO	PURSUANT TO ALL	THORIT	Y OF FAR	2 52 243	2 Charges - C	nat Dain	mburnahla
1				. 0, , , , ,	\ UZ.Z.40"	z Ollanges – C	USE (YOU	indigable
D. OTHER (Specify type of modi								
E. IMPORTANT: Contractor[] is not	, [X] is required to sign this of	document and return	3	copies to	o be issue	ed office.		
14. DESCRIPTION OF AMENDMENT/MO Except as provided herein, all terms and conditions of	ODIFICATION (Organized by U of the document referenced in Item 9A or	ICF section headings, 10A. as heretofore chance	<i>includin</i> ed remains	g solicitatie	on/contra	ct subject mater	where f	easible.)
property and allowers	increasingly bestile orbe-	i information rega	rding s	ystem adı	ministra	tor requireme	ents to i	mitigate
circumstances arising in an Information Circular, 03-16	dated Ime 23 2003	епунопшева. Ты	is requi	rement is	initiate	d in NASA P	rocurer	nent
material of order, 55 10	, adica sanc 22, 2005.							
	(Con	tinued on page 2)						
15A. NAME AND TITLED OF SIGNER (7			ND TIT	LE OF CO	NTRACT	ING OFFICER	(Tvna	or print)
JAM R HUSTON	PROS MENEREZ					1 1 1 1 1 1	ا عظور ا	beittel
16B. CONTRACTOR/OFFEROR	15C. DATE SIGNE	D 16B. UNIȚED	STATE	S OF AME	ERICA	/ _ 1	16C D	ATE SIGNED
An Courts	29 Sept-03		,	11.1	17		20	1 - 1/x 2
Signature of person authorized to sign)	212470	BY 7 0	mg/TLL Of Constr	acting of		you	$\mathcal{J}U$	UPDU Ə
- ;		(AIRIGINIS)	or world	ouning Office	udi j	1		/

N 7540-01-152-8070

STANDARD FORM 30 (REV. 10-83)

a. Add the following clarification to Section I of the subject contract:

1.24, SYSTEM ADMINISTRATOR SECURITY CERTIFICATION PROGRAM

In addition to any other requirements of this contract, all individuals who perform tasks as a system administrator or have authority to perform tasks normally performed by system administrator shall be required to demonstrate knowledge appropriate to those tasks. This demonstration, referred to as the NASA System Administrator Security Certification, is a NASA funded two-tier assessment to verify that system administrators are able to—

- 1. Demonstrate knowledge in system administration for the operating systems for which they have responsibility
- 2. Demonstrate knowledge in the understanding and application of Network and Internet Security.

Certification is granted upon achieving a score above the certification level on both an Operating System test and the Network and Internet Security Test. The Certification earned under this process will be valid for three years. The criteria for this skills assessment has been established by the NASA Chief Information Officer. The objectives and procedures for this certification can be obtained by contracting the IT Security Awareness and Training Center at (216)433-2063.

A system administrator is one who provides it services, network services, files storage, web services, end. To someone else other than themselves and takes or assumes the responsibility for the security and administrative controls of that service or machine. A lead system administrator has responsibility for information technology security (ITS) for multiple computers or network devises represented within a system; ensuring all devices assigned to them are kept in a secure configuration (patched/mitigated); and ensuring that all other system administrators under their lead understand and perform ITS duties. An individual that has full access or arbitrative rights on a system or machine that is only servicing themselves does not constitute a "system administrator" since they are only providing or accepting responsibility for their system. An individual that is only servicing themselves is not required to obtain a System Administrator Certification.

- 2. This change does not increase or decrease the target cost or target fee of the contract.
- 3. No other changes to the subject contract are made by issuance of this modification.
- 4. The Contractor hereby releases the Government from any and all liability under this contract for further equitable adjustments attributable to such facts or circumstances giving rise to the "proposals for adjustment."

AIV	IENDMENT OF SOLICIT	I A FION/MODIFICA	TION OF CO	NTRACT	1. CON	ITRACT ID COD	E PAGE(S) 1 of 3
^ ^M	ENDMENT/MODIFICATION NO. 76	3. EFFECTIVE DATE See Blk 16c	4. REQUISITION See Blk 14 A			5. PROJECT	NO. (If applicable)
	UÉD BY	Dec DIK TOC	1	STERED BY		- /4 C1	
	JASA		7. ADMINIS	HEKEU BY (ii otner tha	an item 6)	
		3.44	To be a second				
	Goddard Space Flight Cente	ĈI					
	Vallops Flight Facility						
V	Vallops Island, VA 23337		}				
8. NAI	ME AND ADDRESS OF CONTRACT	TOR (No., street, county, Sta	ate and ZIP Code)	() 9A	. AMENDM	ENT OF SOLICI	TATION NO.
ו ייורי	01.0						
	ne Cube Corporation						
	665 Willow Pond Plaza			9b	. DATED (S	SEE ITEM 11)	
St	erling VA 20164						
				10.	A. MODIFIC	CATION OF CON	TRACT/ORDER
				X	NO:	NAS5-0108	0
CODE	X 5	FACILITY CODE:			B. DATED (SEE ITEM 13):	07-26-01
	11. THIS ITEM ONLY APPL	TES TO AMENDMENTS	OF SOLICITATION	ONC			
[] The	above numbered solicitation is amended				r Sie oudersale	al F X in the state of the stat	
	nust acknowledge receipt of this amendment						-
offer air prior to	PT OF OFFERS PRIOR TO THE HOUR A eady submitted, such change may be mad the opening hour and date specified. 12. ACCOUNTING AN ALESTIMATED COST: \$84,0	de by telegram or letter, provided e	nach telegram or letter r	nakes reference	e to the solicit $red)$ $ extit{E}$	tation and this amen	you desire to change an idment, and is received BX/GBX
		TEM APPLIES ONLY TO			/		
		DDIFIES THE CONTRAC					
()	A. THIS CHANGE ORDER IS ISS CONTRACT ORDER NO. IN ITE	SUED PURSUANT TO: (Spec M 10A.	cify authority) THE (CHANGES SI	ET FORTH	IN ITEM 14 ARE	MADE IN THE
	B. THE ABOVE NUMBERED CO office, appropriation date, etc.)						as changes in paying
	C. THIS SUPPLEMENTAL AGRI	EEMENT IS ENTERED INTO	PURSUANT TO AL	JTHORITY O	F:		***************************************
Х	D. OTHER (Specify type of modi				ition of Fu	ınds (APR 198	34)
<u>E. IN</u>	PORTANT: Contractor [X] is r	not, [] is required to sign this	document and retu	ırn c		issued office.	
14. D	ESCRIPTION OF AMENDMENT/Mo pt as provided herein, all terms and conditions of	ODIFICATION (Organized by U of the document referenced in flem 9A o	ICF section headings,	including soli	icitation/cont	ract subject mater	where feasible.)
			,		ŭ.	an lorde and enede.	
	 The purpose of this modific 	ation is to provide increme	ental funding for t	he subject c	ontract.		
		(Con	ntinued on page 2)	1			
		(001)	inided on page 2)	1			
15.4	NAME AND TITLED OF SIGNER (7	Tenante	4CA MARET	AND TITLE O	T CONTRA	ATIMO APPLACE	
, UM.	TANGE AIRD HILLD OF STONER (1	γρε σε μεπισ	TOA. NAIVIE A	WD HILE O	FCUNTRA	CTING OFFICER	x (1 ype or print)
15B.	CONTRACTOR/OFFEROR	15C. DATE SIGNE	D 16B. UNITED	STATES OF	AMERICA	- A	16C. DATE SIGNED
			BY Y	mall. X	J. In.	Alors I	25 Sep 200=
חר	ature of person authorized to sign)	:	1 1000 1	of Contractin	Officer)	jui	

7540-01-152-8070

STANDARD FORM 30 (REV. 10-83)

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

BASELINE:

a. The total amount allotted for payment of cost is revised as follows:

From: \$28,972,230.29

By: \$157,353.13

To: \$29,129,583.42

b. The total amount allotted for fee is revised as follows:

From: \$1,686,214.40

By: \$9,158.12

To: \$1,695,372.52

IDIQ:

a. The total amount allotted for payment of cost is revised as follows:

From: \$20,219,093.08

By: \$144,916.93

To: \$20,364,010.01

b. The total amount allotted for fee is revised as follows:

From: \$1,176,791.58

By: \$8,434.32

To: \$1,185,225.90

c. The total amount allotted for payment of cost and fee is as follows:

From: \$52,054,329.35

By: \$319,862.50

To: \$52,374,191.85

Total amount of funds obligated per this modification is \$319,862.50.

The period of performance covered by the allotted funding is 09/01/01 through approximately 11/18/2003.

3. ACCOUNTING AND APPROPRIATION DATA OBLIGATE:

Baseline:					
PR Number	$\underline{ ext{WBS}}$	<u>Fund</u>	Cost Cr	Amt	SOW/TO
4200032673	51R-771-50-U075-01	SAT292003R	512000	\$51,965.00	3
4200032673	51R-771-50-U075-01	SAT292003R	512000	\$500.00	6 .
4200032673	51R-771-50-U075-01	SAT292003R	512000	\$5,000.00	7
4200032673	51R-771-50-U075-01	SAT292003R	512000	\$3,000.00	12
4200032673	51R-771-50-U075-01	SAT292003R	512000	\$22,000.00	15
4200033757	51R-622-91-U035-01	SAT292003R	518400	\$69,248.00	15-
4200033757	51R-344-96-U062-01	SAT292003R	518000	\$14,798.25	15
rmra					
IDIQ:	** 7** ^*	T** 1	~ ~		
PR Number	WBS	<u>Fund</u>	Cost Cr	Amt	SOW/TO
4200032673	51R-771-50-U084-01		512000	\$10,000.00	10-08-2003
4200032673	51R-771-50-5180-30		512000	\$20,000.00	10-08-2003
4200032673	51R-771-50-U075-01		512000	\$31,124.00	04-158-2003
4200032673	51R-771-50-U075-01		512000	\$2,400.00	05-01-2003 ~
:00032673	51R-771-50-U075-01	SAT292003R	512000	\$4,130.00	14-02-2003
4200032673	51R-771-50-U075-01		512000	\$15,500.00	15-02-2003
4200032673	51R-622-91-U035-01	SAT292003R	518400	\$45,572.25	11-15-2003
4200033031	MPS	SAT292003D	519970000	\$1,000.00	15-22-2003
4200020803	51R-622-91-U090-01	SAT292003R	518300	\$800.00	01-000-2004
4200033891	51-773-10-00	SAT292003D	512051	\$825.00	08-06-2004.
4200033891	51-762-10-20	SAT292003D	518400	\$800.00	11-12-2003
4200033891	51-762-10-20	SAT292003D	518400	\$1,200.00	11-13-2003-
4200033891	5110-771-10-06	SAT292002D	511140	\$3,000.00	15-04-2003
4200033891	5110-771-10-06	SAT292002D	511140	\$17,000.00	15-03-2003

^{4.} No other changes to the subject contract are made by issuance of this modification.

MENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4 PSPALIANNA				1 of 3
77	See Blk 16c	4. REQUISITION See Blk 14 A			5. PROJECT NO.	. (If applicable)
v. iSSUED BY	Dec Dix 100			BY (If other thai	11.	
NASA		r. ADMINIO	PIEKED	or (II other thai	п пет 6)	
Goddard Space Flight Cent	ter					
Wallops Flight Facility						
Wallops Island, VA 2333'	7					
	'					
8. NAME AND ADDRESS OF CONTRAC	TOR (No., street, county, S	tate and ZIP Code)	171	9A AMENIDAR	ENT OF SOLICITATI	ONING
	, .,,, ,,	21. 2020)		JAC AMERICANIC	INT OF SOLIGIAN	ON NO.
The Cube Corporation	•					
45665 Willow Pond Plaza				9b. DATED (SE	E ITEM 11)	
Sterling VA 20164			-			
				10A MODIFIC	ATION OF CONTRA	CT/OBDED
					NAS5-01080	CHORDER
CODE:		····	X			
CODE:	FACILITY CODE:			10B. DATED (S	SEE ITEM 13): 07-2	6-01
11. THIS ITEM ONLY APP	LIES TO AMENDMENTS	S OF SOLICITATION	L NS			
[] The above numbered solicitation is amended	as set forth in Item 14. The hour	and date specified for red	ceint of O	ffers () is extended	[] is not extended	
offer already submitted, such change may be ma prior to the opening hour and date specified. 12. ACCOUNTING A TAL ESTIMATED COST: \$84,	ND APPROPRIATIO	ON DATA (If	req G: \$52	uired) PC 2,414,228.98	C/BNC: BX/	GBX
13. THIS I IT MO	TEM APPLIES ONLY TO ODIFIES THE CONTRAC	O MODIFICATION CT/ORDER NO. A	S OF O	CONTRACTS/C	ORDERS, EM 14.	
() A. THIS CHANGE ORDER IS IS: CONTRACT ORDER NO. IN ITE	SUED PURSUANT TO: (Spe M 10A	ecify authority) THE C	HANGE	S SET FORTH IN	I ITEM 14 ARE MAD	E IN THE
B. THE ABOVE NUMBERED CO office, appropriation date, etc.)	NTRACT/ORDER IS MODIFI SET FORTH IN ITEM 14, PU	IED TO REFLECT TH IRSUANT TO THE AL	HE ADM UTHORI	INISTRATIVE CH	IANGES (such as ch	anges in paying
C. THIS SUPPLEMENTAL AGR	EEMENT IS ENTERED INTO	PURSUANT TO AU	THORIT	Y OF:		
X D. OTHER (Specify type of modi	fication and authority) Unil	lateral 52.232	-22 Lir	nitation of Fun	ds (APR 1984)	Marie de la company de la comp
E. IMPORTANT: Contractor [X] is a	not, [] is required to sign this	s document and retur	n	conies to be is:	stied office	
14. DESCRIPTION OF AMENDMENT/MI Except as provided herein, all terms and conditions of	DDIFICATION (Organized by Use the document referenced in Item 94)	UCF section headings, i	including	solicitation/contra	ct subject mater where	feasible.)
					rorce and eπect.	
The number of this modifie		ental funding for th	ie subje	ct contract.		
1. The purpose of this modific	anon is to provide increm-					
The purpose of this modific	ation is to provide increm					
 The purpose of this modific 		ntinued on page 2)				
 The purpose of this modific 						
	(Cor	ntinued on page 2)				
The purpose of this modific 1. The purpose of this modific 15A. NAME AND TITLED OF SIGNER (T	(Cor	ntinued on page 2)	ND TITL	E OF CONTRAC	TING OFFICER (Typ	e or print)
15A. NAME AND TITLED OF SIGNER (T	(Cor ype or print)	ntinued on page 2)				
	(Cor	ntinued on page 2)		E OF CONTRAC		e or print) . DATE SIGNED SUP 200

7540-01-152-8070

ntracting Officer) / | |
STANDARD FORM 30 (REV. 10-83)

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

BASELINE:

a. The total amount allotted for payment of cost is revised as follows:

From: \$29,129,583.42

By: \$5,670.00

To: \$29,135,253.42

b. The total amount allotted for fee is revised as follows:

From: \$1,695,372.52

By: \$330.00

To: \$1,695,702.52

IDIQ:

a. The total amount allotted for payment of cost is revised as follows:

From: \$20,364,010.01

By: \$32,164.71

To: \$20,396,174.72

b. The total amount allotted for fee is revised as follows:

From: \$1,185,225.90

By: \$1,872.42

To: \$1,187,098.32

c. The total amount allotted for payment of cost and fee is as follows:

From: \$52,374,191.85

By: \$40,037.13

To: \$52,414,228.98

Total amount of funds obligated per this modification is \$40,037.13.

The period of performance covered by the allotted funding is 09/01/01 through approximately 11/18/2003.

Contract NAS5-01080 Modification 77 Page 3 of 3

3. ACCOUNTING AND APPROPRIATION DATA OBLIGATE:

Baseline: PR Number 4200034522	<u>WBS</u> 51R-771-50-U075-01	Fund SAT292003R	Internal <u>Order</u> FC100801	<u>Amt</u> \$6,000.00	<u>SOW/1'0</u> 3
IDIQ:			Internal		
PR Number	$\underline{\mathrm{WBS}}$	<u>Fund</u>	<u>Order</u>	Amt_	SOW/TO
4200035034	51R-771-50-U025-01	SAT292003R	FC200801	\$19,501.00	10-05-2003
4200034526	51-762-10-20	SAT292003D	FC301100	\$1,500.00	11-13-2003
4200034526	51-879-85-85	SAT292003D	FC200801	\$5,000.00	04-38-2003
4200034522	51R-622-91-5211-30	SAT292003R	FC200801	\$2,096.07	04-156-2003
4200033021	51R-622-91-5211-30	SAT292003R	FC200801	\$1,330.96	15-27-2003
4200033021	51R-622-91-5211-30	SAT292003R	FC200801	\$4,609.10	04-156-2003

^{4.} No other changes to the subject contract are made by issuance of this modification.

AMENDMENT OF SOLICIT	TATION/MODIFICAT	TION OF CO	NTRA	CT 1. CON	TRACT ID CODE	PAGE(S)
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	I/PURCHA	SE REQ. NO.	5. PROJECT NO.		
78	As Appl	icable				
6. ISSUED BY		7. ADIVIN	ISTERED E	BY (If other than	i Item 6)	
NASA		e e e e e e e e e e e e e e e e e e e				
Goddard Space Flight Center	er	Parish of Articles				
Wallops Flight Facility		**************************************				
Wallops Island, VA 23337						
8. NAME AND ADDRESS OF CONTRAC	TOR (No., street, county, Sta	nte and ZIP Code)	()	9A. AMENDM	ENT OF SOLICITATI	ON NO.
The Cube Corporation						
45665 Willow Pond Plaza				9b. DATED (S	EE ITEM 11)	
Sterling VA 20164						
				10A. MODIFIC	ATION OF CONTRA	CT/ORDER
			$ _{X} $	NO:	NAS5-01080	
CODE:	FACILITY CODE:			10B. DATED	SEE ITEM 13): 07-	26-01
11. THIS ITEM ONLY APP	PLIES TO AMENDMENTS	OF SOLICITA	TIONS			
The above numbered solicitation is amend	ded as set forth in Item 14. The	hour and date spec	ified for rec	eipt of Offers []	is extended, [] is no	t extended.
completing Items 8 and 15, and returning (c) By separate letter or telegram which inclu AT THE PLACE DESIGNATED FOR THE RECE this amendment you desire to change an offe the solicitation and this amendment, and is m 12. ACCOUNTING A	des a reference to the solicitation IPT OF OFFERS PRIOR TO THE H er already submitted, such chang- eceived prior to the opening hour	n and amendment n OUR AND DATA SI e may be made by and date specified	umbers. FA PECIFIED Ma telegram or	VILURE OF YOUR AY RESULT IN RE	ACKNOWLEDGEMENT JECTION OF YOUR OF ach telegram or letter i	TO BE RECEIVED FER. If by virtue of
TOTAL ESTIMATED COST: \$84.			-			GDA
	ITEM APPLIES ONLY TO IODIFIES THE CONTRAC				•	
() A. THIS CHANGE ORDER IS IS CONTRACT ORDER NO. IN ITE		cify authority) TH	E CHANGE	S SET FORTH	IN ITEM 14 ARE MA	DE IN THE
B. THE ABOVE NUMBERED CO office, appropriation date, etc	NTRACT/ORDER IS MODIFIE c.) SET FORTH IN ITEM 14, F					anges in paying
C. THIS SUPPLEMENTAL AGE	REEMENT IS ENTERED INTO P	PURSUANT TO A	UTHORITY	OF:		
X D. OTHER (Specify type of mo	dification and authority) Un	ilateral 52	.222-41	Service Cor	ntract Act	
E. IMPORTANT: Contractor [X]					to be issued office.	
14. DESCRIPTION OF AMENDMENT/N Except as provided herein, all terms and condition	10DIFICATION (Organized by Use of the document referenced in Item 9)	<i>CF section heading</i> . A or 10A, as heretofore	s, <i>including</i> changed, rem	solicitation/contro nains unchanged and	act subject mater whei in full force and effect.	re feasible.)
1. The purpose of this modifi	cation is to replace attachn	nent J-5, Wage	Determina	ation.		
	(Con	tinued on page	2)			
15A. NAME AND TITLED OF SIGNER	(Type or print)	16A. NAM		LE OF CONTRA	CTING OFFICER (T)	pe or print)

Contract NAS5-01080 Modification 78 Page 2 of 2

Block 14 <u>DESCRIPTION</u> (Continued)

- 2. Replace Attachment J-5, Wage Determination, in its entirety and replace with Wage Determination Numbers 1998-0171 Revision 3 dated May 16, 2003 and 1994-2095 Revision 20 dated May 30, 2003.
- 3. No other changes to the subject contract are made by issuance of this modification.

AMENDME	NT OF SOLICIT	TATIO	N/MODIFICA	TION	OF CO	VTRA	СТ	1. CON	RACT ID CODE		PAGE(S) 1 of 3
2. AMENDMENT/MODIFICATION NO. 3. EFFECTIVE DATE 4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If a							applicable)				
79		See B	lk 16c	See	Blk 14 A	s App	licable	;			
6. ISSUED BY					7. ADMINIS	TERED	BY (If o	ther than	Item 6)		
NASA											
	pace Flight Cente	er		İ							
	ight Facility										
Wallops Isl	land, VA 23337			1							
		 				·	_				
8. NAME AND AD	DRESS OF CONTRAC	TOR (No.,	. street, county, Sta	ate and	I ZIP Code)	()	9A. A	MENDINI	ENT OF SOLICIT	ATION	NO.
The Cube C	Samaanakian										
The Cube C	*						ah n	ATED (C)	E ITEM 11)		
	ow Pond Plaza						30. D	A IED (SI	EE ITEM 11)		
Sterling VA	. 20164										
									ATION OF CON' NAS5-0108		ORDER
						X	י ן	10:	14M33-0106		
CODE:		FAC	LITY CODE:				10B.	DATED /	SEE ITEM 13):	07-26	-01
11 THI	IS ITEM ONLY APP	LL NIFS TO) AMENDMENTS	SOFS	SOLICITATI	IONS	1				
	ered solicitation is amend		· · · · · · · · · · · · · · · · · · ·				ceipt of	Offers []	is extended, is	s not ex	tended.
completing Items 8 as (c) By separate letter AT THE PLACE DESI this amendment you the solicitation and the solicitation and the TOTAL ESTIM	IT M	copi des a refer PT OF OFF r already s received prio ND AP 1,485,72 ITEM A ODIFIES	es of the amendment; ence to the solicitation EERS PRIOR TO THE H- ubmitted, such chang or to the opening hour PROPRIATION 1.00 TOTAL CO PPLIES ONLY TO 5 THE CONTRAC	; (b) By n and a HOUR Alge may be rand da NTRA	acknowledging mendment nur ND DATA SPE be made by tell the specified. ATA (If LATA (g receipt mbers. F CIFIED M egram or req NG: \$: NS OF S DES	of this a FAILURE MAY RESTRICT PROTECTION OF THE	mendmen OF YOUR ULT IN RE provided ea ed) Po 4,277.9 RACTS D IN ITI	t on each copy of ACKNOWLEDGEM JECTION OF YOU och telegram or let C/BNC: E 8 (ORDERS, EM 14.	the officent to the control of the c	er submitted; or DE RECEIVED Reference to BX
CONTRA	CHANGE ORDER IS IS: CT ORDER NO. IN ITE BOVE NUMBERED CO	M 10A.			•						
office,	appropriation date, etc	:.) SET FO	ORTH IN ITEM 14, F	PURSU	ANT TO THE	AUTH	ORITY C	OF FAR 4	2.103(b).	···········	··· / ··· / ··· 9
C. THIS	SUPPLEMENTAL AGR	EEMENT	IS ENTERED INTO I	PURSU	ANT TO AU	THORIT	Y OF:			·	
X D. OTHE	R (Specify type of mo	dification	and authority) Un	ilat	eral 52 .	232-2	2 Limit	tation o	f Funds (APF	198	4)
E. IMPORTAN	T: Contractor X i	s not, (] is required to sign	this d	ocument and	return		copies	to be issued off	ice.	-
14. DESCRIPTIO	N OF AMENDMENT/M nerein, all terms and conditions	ODIFICA	TION (Organized by U	JCF sec	tion headings,	including	g solicita	tion/contre	ct subject mater v	where fo	easible.)
						-		•			
-	rpose of this modifi				funding for	the sub	oject co	ntract ar	nd award of the	: 5 th co	ntract year
beginn	ning September 1, 20	05 throu	gh August 31, 20	06.							
			(Cor	atinue	d on page 2)	•					
15A. NAME AND	TITLED OF SIGNER /	Type or p	print)		16A. NAME	AND TI	TLE OF	CONTRA	CTING OFFICER	(Туре	or print)
						~~~~	*************************	*************************			
15B. CONTRACT	TOR/OFFEROR		15C. DATE SIGNI	ED	16B. UNITED	STATE	ES OF A	MERICA		l .	DATE SIGNED
					BY	Pamela	a J. Tayl	or		11/1.	2/2003
(Signature of per	rson authorized to sign	)			(Signature						

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

#### **BASELINE:**

a. The total amount allotted for payment of cost is revised as follows:

From: \$29,135,253.42

By: \$743,998.50

To: \$29,879,251.92

b. The total amount allotted for fee is revised as follows:

From: \$1,695,702.52

By: \$43,301.50

To: \$1,739,004.02

IDIQ:

a. The total amount allotted for payment of cost is revised as follows:

From: \$20,396,174.72

By: \$371,100.55

To: \$20,767,275.27

b. The total amount allotted for fee is revised as follows:

From: \$1,187,098.32

By: \$21,598.45

To: \$1,208,696.77

c. The total amount allotted for payment of cost and fee is as follows:

From: \$52,414,228.98

By: \$1,179,999.00

To: \$53,594,227.98

Total amount of funds obligated per this modification is \$1,179,999.00.

The period of performance covered by the allotted funding is 09/01/01 through approximately 12/8/2003.

# 3. ACCOUNTING AND APPROPRIATION DATA **OBLIGATE**:

Baseline:			Internal		
PR Number	$\underline{\text{WBS}}$	Fund	<u>Order</u>	Amt	SOW/TO
4200037170		SAEX22004D	FC100802	\$52,000.00	15
4200036324		SAEX22004D	FC200801	\$335,000.00	3
4200036782		SAEX22004D	FC200903	\$122,300.00	11
4200036277		SAEX22004D	FC200701	\$60,000.00	6
4200036268		SAEX22004D	FC200321	\$55,000.00	2
4200037228		SAEX22004D	FC301201	\$15,000.00	7
4200037228		SAEX22004D	FC301203	\$32,000.00	8
4200037228		SAEX22004D	FC100609	\$26,000.00	9
4200037228		SAEX22004D	FC200902	\$90,000.00	10
IDIQ:			Internal		
PR Number	$\underline{\text{WBS}}$	<u>Fund</u>	<u>Order</u>	<u>Amt</u>	SOW/TO
4200036785	51-606-12-02	SAEX22004D	FC200903	\$4,600.00	15-13-2004
4200036324		SAEX22004D	FC200401	\$50,000.00	04-08-2004
4200036324		SAEX22004D	FC200401	\$84,000.00	04-25-2004
4200036324		SAEX22004D	FC200401	\$100,000.00	04-26-2004
4200036488	51R-622-91-U135-01	SAT292003R	FC100809	\$1,000.00	04-35-2004
4200036282		SAEX22004D	FC200501	\$25,000.00	04-07-2004
4200036282		SAEX22004D	FC200501	\$45,000.00	04-09-2004
4200036277		SAEX22004D	FC200402	\$45,000.00	05-10-2004
4200035038	51-45-7951-01	SAT452002D	FC200801	\$16,749.00	08-08-2004
4200037012	51-621-15-70	SAT292003D	FC200501	\$41,350.00	04-144-2003
4200037930	51-353-87-01-01	SAT292003D	FC400000	\$20,000.00	04-01-2004
<b>DEOBLIGAT</b>	<u>E:</u>				
228-01763D	51-40-9260-04	SAT402003D		\$40,000.00	02-69-2003

^{4.} In accordance with Clause G.7 Award Term/Fee, The Cube Corporation is hereby notified of the award of one additional term for Contract Year 5, from September 1, 2005 through August 31, 2006. In accordance with Clause B.7, Award Term, Target Cost and Fee are specified for Contract Year 5 as Award Term 1, Target Cost of \$14,604,418.00 and target fee of \$803,243.00.

^{5.} No other changes to the subject contract are made by issuance of this modification.

AM	ENDMENT OF SOLICI	[ATIO	N/MODIFICA	TION O	CONTRA	CT   1. COM	TRACT ID CODE	1 of 3		
2. AME	NDMENT/MODIFICATION NO.	3. EFFE	CTIVE DATE	4. REQUI	SITION/PURCH	ASE REQ. NO.	5. PROJECT N	O. (If applicable)		
	80	See B	lk 16c		14 As App		-			
6. ISSU				7. 4	DIVINISTERED	BY (If other the	an Item 6)			
	ASA									
	oddard Space Flight Cent	er		****						
	allops Flight Facility	,								
W	allops Island, VA 23337									
8. <b>NA</b> N	ME AND ADDRESS OF CONTRAC	TOR (No.,	street, county, St	tate and ZIP	Code) ()	9A. AMENDI	MENT OF SOLICITA	ATION NO.		
Th	e Cube Corporation									
	665 Willow Pond Plaza					9b. DATED (S	SEE ITEM 11)			
	erling VA 20164									
~ .					***************************************	10A. MODIFI	CATION OF CONT	RACT/ORDER		
					X	No: NAS5-01080				
CODE:		FACI	LITY CODE:			10B DATED	(SEE ITEM 13): (	7-26-01		
	11. THIS ITEM ONLY AP									
[ ] The	above numbered solicitation is amen	ded as set	forth in Item 14. The	e hour and da	te specified for re	eceipt of Offers	is extended, it is	not extended.		
(c) By s AT THE this am	ting Items 8 and 15, and returning eparate letter or telegram which incluing PLACE DESIGNATED FOR THE RECE endment you desire to change an officitation and this amendment, and is recountly ACCOUNTING A	ides a refer EIPT OF OFF er already s eceived price	ence to the solicitation FERS PRIOR TO THE ubmitted, such chan or to the opening hou	on and amend HOUR AND D ige may be ma ur and date sp	ment numbers. I ATA SPECIFIED N ide by telegram o ecified.	FAILURE OF YOUI MAY RESULT IN F r letter, provided	R ACKNOWLEDGEM REJECTION OF YOUF each telegram or let	ENT TO BE RECEIVED  R OFFER. If by virtue of		
тот	AL ESTIMATED COST: \$11							ox/ GDX		
	***************************************		PPLIES ONLY T		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			***************************************		
			THE CONTRA							
( )	A. THIS CHANGE ORDER IS IS CONTRACT ORDER NO. IN ITE		RSUANT TO: (Sp	ecify authori	ty) THE CHANC	GES SET FORTH	I IN ITEM 14 ARE	MADE IN THE		
	B. THE ABOVE NUMBERED CO office, appropriation date, et							changes in paying		
	C. THIS SUPPLEMENTAL AGI	REEMENT	IS ENTERED INTO	PURSUANT	TO AUTHORIT	TY OF:				
Х	D. OTHER (Specify type of me	odification	and authority) U	nilatera	1 52.232-2	2 Limitation	of Funds (APF	(1984)		
E. IN	MPORTANT: Contractor [ X ]	is not, [	] is required to sig	ın this docun	nent and return	соріє	es to be issued offi	ce.		
	DESCRIPTION OF AMENDMENT/II opt as provided herein, all terms and condition									
					_					
	1. The purpose of this modif	ication is	to provide merei	memai iun	ing for the su	ojeci comiaci.				
			(Co	ontinued on	page 2)					
15/	NAME AND TITLED OF SIGNER	(Type or	neint l	164	NAME AND T	ITLE OF CONTE	RACTING OFFICER	(Type or print)		
1 OW	HOME AND HILLD OF DIGITER	, , ypc o/ j		l l	nela J. Taylo	IAME AND TITLE OF CONTRACTING OFFICER (Type or print) la J. Taylor				
15B.	CONTRACTOR/OFFEROR		15C. DATE SIGN	NED 16B	UNITED STAT	ES OF AMERIC	A	16C. DATE SIGNED		
			aucres de la constante de la c	BY	Original	Signed by		11/20/2003		
(Sigr	nature of person authorized to sig	n)		- I		ntracting Office	r)			

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

#### **BASELINE:**

a. The total amount allotted for payment of cost is revised as follows:

From: \$29,879,251.92

By: \$580,702.50

To: \$30,459,954.42

b. The total amount allotted for fee is revised as follows:

From: \$1,739,004.02

By: \$33,797.50

To: \$1,772,801.52

IDIQ:

The total amount allotted for payment of cost is revised as follows:

From: \$20,767,275.27

By: \$100,954.72

To: \$20,868,229.99

b. The total amount allotted for fee is revised as follows:

From: \$1,208,696.77

By: \$5,875.65

To: \$1,214,572.42

c. The total amount allotted for payment of cost and fee is as follows:

From: \$53,594,227.98

By: \$721,330.37

To: \$54,315,558.35

Total amount of funds obligated per this modification is \$721,330.37.

The period of performance covered by the allotted funding is 09/01/01 through approximately 12/18/2003.

Contract NAS5-01080 Modification 80 Page 3 of 3

# 3. ACCOUNTING AND APPROPRIATION DATA **OBLIGATE:**

Baseline:			Internal		
PR Number	$\underline{ ext{WBS}}$	<u>Fund</u>	<u>Order</u>	<u>Amt</u>	SOW/TO
4200039159		SAEX22004D	FC200801	\$335,000.00	3
4200039159		SAEX22004D	FC200701	\$47,500.00	6
4200038782		SAEX22004D	FC100301	\$18,000.00	12
4200038782		SAEX22004D	FC100709	\$14,000.00	14
4200038688		SAEX22004D	FC200321	\$55,000.00	2
4200039115		SAEX22004D	FC200903	\$145,000.00	11
IDIQ:			Internal		
PR Number	$\underline{ ext{WBS}}$	<u>Fund</u>	<u>Order</u>	<u>Amt</u>	SOW/TO
4200039203	51-879-85-53	SAT292003D	FC400000	\$15,994.00	08-12-2004
4200038506	51-188-06-40	SAT292003D	FC200801	\$5,000.00	04-11-2004
4200038228	51-45-7951-02	SAT452003D	FC301203	\$43,336.37	08-13-2004
4200039159		SAEX22004D	FC200401	\$10,000.00	05-15-2004
4200039159		SAEX22004D	FC200401	\$32,500.00	05-10-2004
4200038854		SAEX22004D	FC200902	\$50,000.00	10-03-2004

^{4.} No other changes to the subject contract are made by issuance of this modification.

AMENDMENT OF SOLICI	TATION/MODIFICAT	TION OF CO	NTRACT	1. CON	RACT ID CODE		PAGE(S) 1 of 4
**MENDMENT/MODIFICATION NO.   3. EFFECTIVE DATE   4. REQUISITION/PURCHASE RE   See Blk 14 As Applicable   See Blk 14 As Applicabl					5. PROJECT N	10. (If i	applicable)
b. ASUED BY	See Dik 10c	·	TERED BY (		(from 6)		·····
NASA		7. ADMINIS	IENED DI (I	ourer urar	ntem o)		
Goddard Space Flight Center	or.						
Wallops Flight Facility	w.k						
Wallops Island, VA 23337	,						
wanops island, VA 25557							
8. NAME AND ADDRESS OF CONTRAC	TOR (No., street, county, Sta	te and ZIP Code)	() 9A.	AMENDME	NT OF SOLICITA	ATION	NO.
The Cube Corporation							
45665 Willow Pond Plaza			9b.	DATED (SE	E ITEM 11)		***************************************
Sterling VA 20164							
			10A	. MODIFIC	ATION OF CONT	RACT/	ORDER
				NO:	NAS5-01080		
CODE:	FACILITY CODE:		X				
CODE.	PACIEITY CODE.		105	i. DATED (S	SEE ITEM 13): 0	7-26-(	Л
11. THIS ITEM ONLY APP	LIES TO AMENDMENTS	OF SOLICITATI	ONS	·			······································
[ ] The above numbered solicitation is amended	as set forth in Item 14. The hour ar	nd date specified for re	ceipt of Offers [	] is extended	, [ ] is not extended.		
RECEIPT OF OFFERS PRIOR TO THE HOUR A offer already submitted, such change may be ma prior to the opening hour and date specified.  12. ACCOUNTING A  TAL ESTIMATED COST: \$114	de by telegram or letter, provided eann or letter, provided eann of APPROPRIATION 1,485,721.00 TOTAL CON	ach telegram or letter in DATA (II) VTRACT FUNDI	nakes reference Frequis NG: \$55,35	to the solicita ced) Po 57,671.2:	tion and this amendr		nd is received
	TEM APPLIES ONLY TO ODIFIES THE CONTRAC						
( ) A. THIS CHANGE ORDER IS IS CONTRACT ORDER NO. IN ITE	SUED PURSUANT TO: (Spec M 10A.	cify authority) THE (	CHANGES SE	T FORTH II	N ITEM 14 ARE N	MADE I	N THE
B. THE ABOVE NUMBERED CO office, appropriation date, etc.)						s chanç	es in paying
C. THIS SUPPLEMENTAL AGR	EEMENT IS ENTERED INTO	PURSUANT TO A	JTHORITY OF	T-		·	MINIMA
X D. OTHER (Specify type of mod	ification and authority) Unil	ateral <b>52.23</b>	2-22 Limitat	ion of Fu	nds (APR 1984	4)	
E. IMPORTANT: Contractor [ X ] is					sued office.		
14. DESCRIPTION OF AMENDMENT/M Except as provided herein, all terms and conditions	ODIFICATION (Organized by U	CF section headings	including solid	itation/contr	act subject mater w	rhere fe	asible.)
				_	ridros ana sitott.		
1. The purpose of this modified	cation is to provide increme	ntal funding for t	ne subject co	ontract,			
	(Con	tinued on page 2)					
15A. NAME AND TITLED OF SIGNER (	Type or print)	16A NAME	AND TITLE OF	CONTRAC	TING OFFICER	(Type	or print)
	. <i>y y</i>	James R.			Of I IOUN	,,,pe	or printy
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNE	D 16B. UNITED	STATES OF	AMERICA	<u> </u>	16C. [	ATE SIGNED
(Signature of person authorized to sign)		Original Signed By					

17540-01-152-8070

# Block 14 <u>DESCRIPTION</u> (Continued)

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

# **BASELINE:**

a. The total amount allotted for payment of cost is revised as follows:

From: \$30,459,954.42

By: \$704,510.73

To: \$31,164,465.15

b. The total amount allotted for fee is revised as follows:

From: \$1,772,801.52

By: \$41,003.27

To: \$1,813,804.79

IDIQ:

a. The total amount allotted for payment of cost is revised as follows:

From: \$20,868,229.99

By: \$280,285.96

To: \$21,148,515.95

b. The total amount allotted for fee is revised as follows:

From: \$1,214,572.42

By: \$16,312.94

To: \$1,230,885.36

The total amount allotted for payment of cost and fee is as follows:

From: \$54,315,558.35

By: \$1,042,112.90

To: \$55,357,671.25

Total amount of funds obligated per this modification is \$1,042,112.90.

The period of performance covered by the allotted funding is 09/01/01 through approximately 12/29/2003.

Contract NAS5-01080 Modification 81 Page 3 of 4

# 3. <u>ACCOUNTING AND APPROPRIATION DATA</u> **OBLIGATE:**

Baseline:			Internal		
PR Number	$\overline{ ext{WBS}}$	<u>Fund</u>	<u>Order</u>	Amt_	SOW/TO
4200040744		SAEX22004D	FC100709	\$12,575.00	14
4200040367	51R-622-96-5606-01	SAEX22004R	FC100310	\$7,406.00	12
4200040367	51R-622-96-5564-01	SAEX22004R	FC100310	\$6,535.00	12
4200040367	51R-622-96-5606-01	SAEX22004R	FC100108	\$29,078.00	14
4200040367	51R-622-96-5564-01	SAEX22004R	FC100108	\$15,028.00	14
4200040367	51R-622-96-5606-01	SAEX22004R	FC100802	\$61,948.00	15
4200040367	51R-622-96-5564-01	SAEX22004R	FC100802	\$36,489.00	15
4200040367	51R-622-96-5606-01	SAEX22004R	FC100101	\$19,607.00	16
4200040367	51R-622-96-5564-01	SAEX22004R	FC100101	\$14,672.00	16
4200040195	51R-622-96-5606-01	SAEX22004R	FC200401	\$125,057.00	3
4200040195	51R-622-96-5564-01	SAEX22004R	FC200401	\$46,379.00	3
4200041149	51R-622-96-5607-01	SAEX22004R	FC100601	\$3,250.00	9
4200039924		SAEX22004D	FC301201	\$25,000.00	7
4200039924		SAEX22004D	FC301203	\$65,000.00	8
4200039924		SAEX22004D	FC100609	\$32,000.00	9
200039924		SAEX22004D	FC200902	\$90,000.00	10
.200040231	51R-622-96-5564-01	SAEX22004R	FC200902	\$104,675.00	10
4200040368	51R-622-96-5606-01	SAEX22004R	FC200301	\$370.00	2
4200040368	51R-622-96-5564-01	SAEX22004R	FC200301	\$1,201.00	2
4200040191	51R-622-96-5606-01	SAEX22004R	FC200701	\$38,589.00	6
4200040191	51R-622-96-5564-01	SAEX22004R	FC200701	\$10,655.00	6
IDIQ:	TT TT. 0		Internal		~ ~ TT !!!
PR Number	WBS	Fund	Order Follogies	Amt	SOW/TO
4200040367	51R-622-96-5606-01	SAEX22004R	FC100109	\$14,212.00	14-03-2004
4200040367	51R-622-96-5564-01	SAEX22004R	FC100109	\$6,843.00	14-03-2004
4200040367	51R-622-96-5606-01	SAEX22004R	FC100709	\$5,561.00	14-05-2004
4200040367	51R-622-96-5564-01	SAEX22004R	FC100709	\$3,707.00	14-05-2004
4200040367	51R-622-96-5606-01	SAEX22004R	FC100802	\$5,000.00	15-01-2004
4200040367	51R-622-96-5564-01	SAEX22004R	FC100802	\$2,653.00	15-01-2004
4200040367	51R-622-96-5606-01		FC100802	\$40,000.00	15-02-2004
4200040367	51R-622-96-5564-01	SAEX22004R	FC100802	\$9,000.00	15-02-2004
4200040367	51R-622-96-5606-01	SAEX22004R	FC100802	\$15,000.00	15-04-2004
4200040367	51R-622-96-5564-01		FC100802	\$3,000.00	15-04-2004
4200040367	51R-622-96-5606-01	SAEX22004R	FC100802	\$750.00	15-05-2004
4200040367	51R-622-96-5564-01	SAEX22004R	FC100802	\$250.00	15-10-2004
4200040367	51R-622-96-5606-01		FC100802	\$1,670.00	15-14-2004
1200040195	51R-622-96-5606-01		FC200401	\$30,000.00	04-03-2004
200040195	51R-622-96-5564-01	SAEX22004R	FC200401	\$1,759.00	04-04-2004
4200040195	51R-622-96-5564-01		FC200401	\$23,402.00	04-27-2004
4200040195	51R-622-96-5564-01	SAEX22004R	FC200401	\$14,767.00	04-28-2004

Contract NAS5-01080 Modification 81 Page 4 of 4

IDIQ:			Internal		
PR Number	$\underline{\mathrm{WBS}}$	<u>Fund</u>	<u>Order</u>	<u>Amt</u>	SOW/TO
4200041149	51R-622-96-5607-01	SAEX22004R	FC100101	\$1,000.00	01-00-2004
4200041149	51R-622-96-5607-01	SAEX22004R	FC200402	\$17,000.00	05-01-2004
4200041149	51R-622-96-5607-01	SAEX22004R	FC200402	\$1,600.00	05-18-2004
4200040231	51R-622-96-5605-01	SAEX22004R	FC200902	\$21,379.00	10-08-2003
4200040231	51R-622-96-5605-01	SAEX22004R	FC200902	\$143,621.00	10-05-2004
4200040368	51R-622-96-5606-01	SAEX22004R	FC200301	\$16,786.00	02-02-2004
4200040368	51R-622-96-5564-01	SAEX22004R	FC200301	\$4,197.00	02-02-2004
4200040368	51R-622-96-5606-01	SAEX22004R	FC200301	\$18,179.00	02-03-2004
4200040368	51R-622-96-5564-01	SAEX22004R	FC200301	\$4,545.00	02-03-2004
4200040370	51R-622-96-5606-01	SAEX22004R	FC200701	\$1,405.00	06-04-2004
4200039725	51-762-10-20	SAT292003D	FC100809	\$536.90	11-13A-2003
4200039348		SAEX22004D	FC100801	\$25,000.00	14-02-2004
4200038263		SAEX22004D	FC200801	\$22,526.00	14-01-2004
4200040191	51R-622-96-5606-01	SAEX22004R	FC200402	\$25,000.00	05-07-2004
4200040191	51R-622-96-5564-01	SAEX22004R	FC200402	\$250.00	05-08-2004
DEOBLIGAT	ir.				
DEOBEIGAT	<u>.</u> .		Internal		
R Number	<u>WBS</u>	Fund SAEX22004D	Order FC200401	<u>Amt</u> (\$84,000.00)	SOW/TO 04-25-2004
	5	SAEX22004D	FC200401	(\$100,000.00)	04-26-2004

^{4.} Correction to Modification 80 Block 12 to read \$54,315,558.35 as stated on page 2 of modification 80.

^{5.} No other changes to the subject contract are made by issuance of this modification.

ΑN	IENDMENT OF SOLICI	TATION/MODIFICAT	TION OF CON	TRACT	1. CON	TRACT ID CODE	PAGE(S) 1 of 3
2. AN	ENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/P	URCHASE R	EQ. NO.	5. PROJECT N	O. (If applicable)
	82	See Blk 16c	See Blk 14 As	Applicab	le		
	UED BY		7. ADMINIST	ERED BY (If	other than	n Item 6)	
	IASA						
	Foddard Space Flight Cent	er	-				
	Vallops Flight Facility	7					
V	Vallops Island, VA 23337	'					
8. NA	ME AND ADDRESS OF CONTRAC	TOR (No. street county Sta	ate and ZIP Code	() 9A.	AMENDM	ENT OF SOLICITA	ΔΤΙΟΝ ΝΟ
		, are proof, allow, dolling, old		1	PARIE LE DIN	LITE OF COLICE	111014 140.
Tl	ne Cube Corporation		Billocke about				
	6665 Willow Pond Plaza			9ь.	DATED (S	EE ITEM 11)	**************************************
St	erling VA 20164						
	C		h-	10A	. MODIFIC	ATION OF CONT	RACT/ORDER
			WAX	x	NO:	NAS5-0108	0
CODE	*	FACILITY CODE:			. DATED (	SEE ITEM 13): (	)7-26-01
			***************************************		,		
1 7974	11. THIS ITEM ONLY API					·····	<u> </u>
( ) In	above numbered solicitation is amen	ded as set forth in Item 14. The	hour and date specified	d for receipt o	f Offers [ ]	is extended, [ ] is	not extended.
(c) By AT TH this an	eting Items 8 and 15, and returning separate letter or telegram which incluse PLACE DESIGNATED FOR THE RECE tendment you desire to change an officitation and this amendment, and is received.  12. ACCOUNTING A	ides a reference to the solicitation EPT OF OFFERS PRIOR TO THE H er already submitted, such change eceived prior to the opening hour	n and amendment numb IOUR AND DATA SPEC e may be made by teleg and date specified.	bers. FAILURI IFIED MAY RE gram or letter,	E OF YOUR SULT IN RE , provided e	ACKNOWLEDGEMI EJECTION OF YOUF ach telegram or lett	ENT TO BE RECEIVED  R OFFER. If by virtue of
TO				***		,	A/GDA
	FAL ESTIMATED COST: \$11	ITEM APPLIES ONLY TO					
		ODIFIES THE CONTRAC					
( )	A. THIS CHANGE ORDER IS IS CONTRACT ORDER NO. IN ITE		cify authority) THE C	HANGES SE	T FORTH	IN ITEM 14 ARE	MADE IN THE
	B. THE ABOVE NUMBERED CO office, appropriation date, et	ONTRACT/ORDER IS MODIFIE c.) SET FORTH IN ITEM 14, P					changes in paying
	C. THIS SUPPLEMENTAL AGE	REEMENT IS ENTERED INTO F	PURSUANT TO AUTI	HORITY OF:	***************************************		
X	D. OTHER (Specify type of mo	odification and authority) Un:	ilateral <b>52.2</b>	32-22 Lim	itation c	of Funds (APR	1984)
	MPORTANT: Contractor [ X ]					to be issued offi	
14. Exc	DESCRIPTION OF AMENDMENT/Nept as provided herein, all terms and condition	MODIFICATION (Organized by United to the document referenced in Item 97	<i>ICF section headings, in</i> A or 10A, as heretofore cha	n <b>cluding solicit</b> Inged, remains ur	t <b>ation/contr</b> nchanged and	<b>act subject mater v</b> in full force and effect.	vhere feasible.)
	1. The purpose of this modifi	ication is to provide increm	ental funding for t	he cubiect c	ontract		
	The purpose of this mount	ioution is to provide mereni	ionai fanding for t	no suoject e	omiaci.		
		(Con	ntinued on page 2)				
45.	ALARAT KAIN WIWI MA AMALALI	/F	1 222 2	W. B. W			
15A	. NAME AND TITLED OF SIGNER	(Type or print)	Pamela J. T		r CONTRA	ACTING OFFICER	(Type or print)
15B	CONTRACTOR/OFFEROR	15C. DATE SIGNE			AMERICA	<u> </u>	16C, DATE SIGNED
		***************************************				***************************************	12/17/2003
(Sigi	nature of person authorized to sign	יו		nal Signed By of Contractin			

# Block 14 **DESCRIPTION** (Continued)

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

# **BASELINE:**

a. The total amount allotted for payment of cost is revised as follows:

From: \$31,164,465.15

By: \$875,259.00

To: \$32,039,724.15

b. The total amount allotted for fee is revised as follows:

From: \$1,813,804.79

By: \$50,941.00

To: \$1,864,745,79

IDIQ:

a. The total amount allotted for payment of cost is revised as follows:

From: \$21,148,515.95

By: \$137,025.00

To: \$21,285,540.95

b. The total amount allotted for fee is revised as follows:

From: \$1,230,885.36

By: \$7,975.00

To: \$1,238,860.36

The total amount allotted for payment of cost and fee is as follows:

From: \$55,357,671.25

By: \$1,071,200.00

To: \$56,428,871.25

Total amount of funds obligated per this modification is \$1,071,200.00.

The period of performance covered by the allotted funding is 09/01/01 through approximately 5/12/2004.

Contract NAS5-01080 Modification 82 Page 3 of 3

# 3. ACCOUNTING AND APPROPRIATION DATA **OBLIGATE:**

Baseline:			Internal		
PR Number	$\underline{\text{WBS}}$	<u>Fund</u>	Order	<u>Amt_</u>	SOW/TO
4200042060		SAEX22004D	FC301201	\$30,000.00	7
4200042060		SAEX22004D	FC301203	\$100,000.00	8
4200042060		SAEX22004D	FC100609	\$70,000.00	9
4200042060		SAEX22004D	FC200902	\$200,000.00	10
4200041715		SFCX22004D	FC100802	\$198,200.00	15
4200042224		SAEX22004D	FC200903	\$328,000.00	11
IDIQ:			Internal		
PR Number	<u>WBS</u>	<u>Fund</u>	<u>Order</u>	<u>Amt</u>	SOW/TO
4200042506	51R-622-96-5605-01	SAEX22004R	FC200401	\$6,000.00	04-84-2003
4200042506	51R-622-96-5605-01	SAEX22004R	FC200401	\$26,000.00	04-36-2004
4200042506	51R-622-96-5605-01	SAEX22004R	FC200401	\$5,500.00	04-44-2004
4200042506	51R-622-96-5605-01	SAEX22004R	FC200401	\$4,500.00	04-49-2004
4200042504	51R-622-96-5605-01	SAEX22004R	FC200402	\$3,000.00	05-14-2004
4200042060		SAEX22004D	FC200902	\$100,000.00	10-03-2004

^{4.} No other changes to the subject contract are made by issuance of this modification.

AM	ENDMENT OF SOLICIT	ΓΑΤΙΟΙ	N/MODIFICA	TION OF	CONTRA	CT 1. CON	TRACT ID CODE	PAGE(S) 1 of 3
2. AME	NDMENT/MODIFICATION NO.	1	CTIVE DATE	1		ASE REQ. NO.	5. PROJECT N	IO. (If applicable)
	83	See B	lk 16c		14 As App			
6. ISSU	ED BY ASA			7. AD	MINISTERED	BY (If other than	n Item 6)	
	ASA oddard Space Flight Cente	ar a		***************************************				
	allops Flight Facility	21		ĺ				
	allops Island, VA 23337							
¥¥	anops Island, VA 23331							
8. NAN	IE AND ADDRESS OF CONTRAC	TOR (No.	, street, county, St	tate and ZIP C	ode) ()	9A. AMENDM	ENT OF SOLICITA	ATION NO.
Th	e Cube Corporation							
450	665 Willow Pond Plaza					9b. DATED (S	EE ITEM 11)	
Ste	rling VA 20164							A-A
					***************************************		NAS5-0108 NAS5-0108	
					X	NO:	NA55-0108	
CODE:		FAC	ILITY CODE:			10B. DATED	(SEE ITEM 13):(	07-26-01
	11. THIS ITEM ONLY APP	LLES TO	) AMENDMENTS	S OF SOLIC	L ITATIONS			
The	above numbered solicitation is amend					sceipt of Offers	is extended, [ ] is	not extended.
AT THE this ame the solic	eparate letter or telegram which inclu PLACE DESIGNATED FOR THE RECE endment you desire to change an offer itation and this amendment, and is re 12. ACCOUNTING A AL ESTIMATED COST: \$11-	IPT OF OFI or already seceived pri	FERS PRIOR TO THE I pubmitted, such chang or to the opening hou PROPRIATIO	HOUR AND DA ge may be mad ir and date spec ON DATA	TA SPECIFIED No by telegram of ified.  (If rec	MAY RESULT IN RI In letter, provided e Quired) P	EJECTION OF YOUF ach telegram or let	R OFFER. If by virtue of
			PPLIES ONLY TO THE CONTRAC				•	
()	A. THIS CHANGE ORDER IS IS CONTRACT ORDER NO. IN ITE		RSUANT TO: (Spe	ecify authority	THE CHANG	SES SET FORTH	IN ITEM 14 ARE	MADE IN THE
	B. THE ABOVE NUMBERED CO office, appropriation date, etc							changes in paying
	C. THIS SUPPLEMENTAL AGR							
X	D. OTHER (Specify type of mo					2 Limitation of	of Funds (APF	1 1984)
~~~~~~~~~~	IPORTANT: Contractor ( X ) i		·····				to be issued offi	
	ESCRIPTION OF AMENDMENT/Not as provided herein, all terms and conditions							
	The purpose of this modifi	cation is	to provide incren	nental fundii	ng for the sul	bject contract.		
			(Co	ntinued on p	age 2)			
15A.	NAME AND TITLED OF SIGNER	(Type or p	orint)	1	IAME AND TI		ACTING OFFICER	(Type or print)
15B.	CONTRACTOR/OFFEROR		15C. DATE SIGN	IED 16B. U	NITED STAT	ES OF AMERICA		16C. DATE SIGNED

BY Original Signed By

(Signature of Contracting Officer)

(Signature of person authorized to sign)

1/20/2004

Block 14 <u>DESCRIPTION</u> (Continued)

2. Under Clause B.9 CONTRACT FUNDING (NFS 1852.232-81) revise contract funding as follows:

BASELINE:

a. The total amount allotted for payment of cost is revised as follows:

From: \$32,039,724.15

By: \$850,522,44

To: \$32,890,246.59

b. The total amount allotted for fee is revised as follows:

From: \$1,864,745,79

By: \$49,501.31

To: \$1,914,247.10

IDIQ:

a. The total amount allotted for payment of cost is revised as follows:

From: \$21,285,540.95

By: \$457,896.44

To: \$21,743,437.39

b. The total amount allotted for fee is revised as follows:

From: \$1,238,860.36

By: \$26,650.06

To: \$1,265,510.42

The total amount allotted for payment of cost and fee is as follows:

From: \$56,428,871.25

By: \$1,384,570.25

To: \$57,813,441.50

Total amount of funds obligated per this modification is \$1,385,370.25 Total amount of funds deobligated per this modification is \$(800.00)

TOTAL CHANGE IN CONTRACT FUNDING:

\$1,384,570.25

The period of performance covered by the allotted funding is 09/01/01 through approximately 5/18/2004.

3. ACCOUNTING AND APPROPRIATION DATA **OBLIGATE:**

Bas	se	l)	n	e:
F- F-				

4200046416 \$310,000.00 3 4200046416 \$48,000.00 6 4200044621 \$129,300.00 15 4200044700 \$200,000.00 3 4200046543 \$35,000.00 2 4200046543 \$32,000.00 1 4200043511 \$12,500.00 3 4200044291 \$50,000.00 2 4200044291 \$50,000.00 6 4200043514 \$14,223,75 6	PR Number	<u>Amt</u>	SOW/TO
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4200043514 \$14 223 75 6	4200046544	\$19,000.00	1
740007JJ17	4200043514	\$14,223.75	6

IDIQ: PR Number

PR Number	<u>Amt</u>	SOW/TO
4200046416	\$10,000.00	05-15-2004
4200043512	\$8,750.00	05-20-2004
4200045167	\$22,526.00	14-01-2004
4200043060	\$188,000.00	10-01-2004
4200044700	\$10,000.00	05-10-2004
4200044700	\$39,500.00	05-10-2004
4200043650	\$364.05	15-27-2003
4200045940	\$2,800.00	04-01-2004
4200043511	\$25,000.00	04-32-2004
4200044698	\$1,038.00	02-19-2003
4200044698	\$13,011.45	02-83-2003
4200044698	\$20,000.00	04-41-2004
4200041908	\$14,863.00	02-05-2004
4200041942	\$30,941.00	02-08-2003
4200041942	\$23,767.00	02-60-2003
4200041942	\$25,367.00	02-61-2003
4200041942	\$13,278.00	02-72-2003
4200041942	\$36,141.00	02-16-2003

DEOBLIGATION:

WBS	\underline{AMT}		SOW/TO		PLI	<u>ALI</u>
51R-622-91-U090-01	\$800.00	01-00-2004	74	1		

^{4.} No other changes to the subject contract are made by issuance of this modification.

AMENDMENT OF SOLICI	TATION/MODIFICA	TION OF CO	NTRA	CT 1.0	CONTRACT ID CODE	PAGE(S) 1 of 2
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION			O. 5. PROJECT NO.	(If applicable)
84	See Blk 16c	See Blk 14 A				
6. ISSUED BY		7. ADMINIS	TERED E	3Y (If other	than Item 6)	
NASA						
Goddard Space Flight Center	er					
Wallops Flight Facility						
Wallops Island, VA 23337		100				
			·			
8. NAME AND ADDRESS OF CONTRAC	TOR (No., street, county, Sta	ate and ZIP Code)	()	9A. AMEN	DMENT OF SOLICITATION)N NO.
The Cube Corporation						
45665 Willow Pond Plaza				9b DATE) (SEE ITEM 11)	erner verbalen, erner franke mareten av milituar da da en appropriation p
				ow. wretten	(044, (44, 11)	
Sterling VA 20164			ļ	400 MACO	IFICATION OF CONTRAC	TIOGRED
				NO:	NAS5-01080	MORDER
			X	140.	147XD2-01000	
CODE:	FACILITY CODE:			10B. DATE	D (SEE ITEM 13): 07-2	ô-01
11. THIS ITEM ONLY APPI	LICO TO ANACHIOMACNIC	OF COLLOTATI				
[] The above numbered solicitation is amended				ffore [] ie ovt	ended [] is not extended	
Offers must acknowledge receipt of this amendm		•	•	• •		
8 and 15, and returning copies of the am telegram which includes a reference to the solicit FOR THE RECEIPT OF OFFERS PRIOR TO The change an offer already submitted, such change received prior to the opening hour and date spec	ation and amendment numbers. I IE HOUR AND DATA SPECIFIED may be made by telegram or lette	FAILURE OF YOUR AC MAY RESULT IN REJ	KNOWLE ECTION O	DGEMENT TO F YOUR OFF	O BE RECEIVED AT THE PLIER. If by virtue of this amend	ACE DESIGNATED Iment you desire to
12. ACCOUNTING A		N DATA (If	requ	uired)	PC/BNC: BX/	GFG
TOTAL ESTIMATED COST: \$84,0	078,060.00 TOTAL CON	TRACT FUNDIN	G: \$56,	,428,871.	.25	
	TEM APPLIES ONLY TO ODIFIES THE CONTRAC					
() A. THIS CHANGE ORDER IS ISS CONTRACT ORDER NO. IN ITE		cify authority) THE C	HANGES	SET FORT	H IN ITEM 14 ARE MADE	IN THE
B. THE ABOVE NUMBERED CO office, appropriation date, etc.)	NTRACT/ORDER IS MODIFII SET FORTH IN ITEM 14, PUI	ED TO REFLECT THE A	HE ADMIN UTHORIT	NISTRATIVE Y OF FAR 4	E CHANGES (such as cha 42.103(b).	nges in paying
X C. THIS SUPPLEMENTAL AGRI	EEMENT IS ENTERED INTO	PURSUANT TO AU	THORITY	OF FAR 52	2.243-2 Changes – Cost R	eimbursable.
D. OTHER (Specify type of modi	fication and authority)					
E. IMPORTANT: Contractor [] is not	, [X] is required to sign this	document and return	1_3		e issued office.	
14. DESCRIPTION OF AMENDMENT/Me Except as provided herein, all terms and conditions of	ODIFICATION (Organized by L of the document referenced in Item 9A o	JCF section headings, r 10A, as heretofore chang.	including ed, remains	solicitation/ unchanged and	contract subject mater wher in full force and effect.	e feasible.)
1. The purpose of this modific		_		*		
1. The purpose of this modific	ation is to revise 30 w 3,			ion and ve	quirement.	
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	(Con	ntinued on page 2)	1			
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		JAN 14 4				
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15B. CONFRACTOR/OFFEROR	MARINE //SA BOOK	AT DE CARP	QBAIL		<u> </u>	DATE OFFICE
135. CONTRACTOR/OFFEROR	13C. MATE STORE	D GEBLUNATED	SHIP	OF AMERI	160	DATE SIGNED
Marine of depolar had	1/30/ml	BY Aas	nela	J.	sugar 3	teb 2009
(Signature of person authorized to sign)		(Signature		cting officer		
NSN/7540-01/152-8070	4		,	STANDARD	FORM 30 (REV. 10-83)	

Contract NAS5-01080 Modification 84 Page 2 of 2

Block 14 <u>DESCRIPTION</u> (Continued)

- This modification is issued to clarify SOW 3.2.1, General Requirements by adding a requirement for an Annual Work Plan (AWP) and the associated contract deliverable.
- 2. Replacement pages are attached.
- 3. This change does not increase or decrease the target cost or target fee of the contract.
- 4. No other changes to the subject contract are made by issuance of this modification.
- 5. The Contractor hereby releases the Government from any and all liability under this contract for further equitable adjustments attributable to such facts or circumstances giving rise to the "proposals for adjustment."

3.0 FACILITIES OPERATIONS AND MAINTENANCE

3.1 General Information

The Contractor shall provide broad and comprehensive support in facilities operation and maintenance basic requirements.

Open flame work will not be permitted unless the Contractor obtains prior clearances from the Emergency Services Section or the Fire Prevention Inspector.

All work shall be accomplished at the Wallops Flight Facility, Wallops Island, VA, inclusive of the Main Base, Island, and Tenant facilities located on or adjacent to these locations. The Island includes the Mainland connected by the Causeway. Temporary assignments at remotely located worldwide sites may also be required.

The Contractor shall supply all parts, components, and materials/supplies in the execution of the requirements of this section of the SOW. The items supplied shall be new or factory reconditioned parts and components. All replacement units, parts, components and materials/supplies used in the performance of the requirements shall be compatible with that existing equipment on which it is to be used; shall be of equal or better quality than original equipment specifications; and shall comply with the applicable contract specifications. All mechanical parts procured for use at WFF shall adhere to NASA Management Instruction 5320.7, Basic Policy for Mechanical Parts Control, which establishes the policy for controlling the selection, testing, and tractability of mechanical parts. As a minimum, the following part types are considered under the provisions of this instruction: bearings, washers, rivets, rings, spacers, studs, pins, valves, springs, and threaded fastening devices. Parts and components, once installed in the Government facility, become Government property. Items not listed in the technical specifications shall be of acceptable industrial grade and quality. If the original manufacturer has updated the quality of parts for current production, parts supplied under this contract shall equal or exceed the updated quality. The Contractor shall retain the parts replaced for at least 10 working days after completion of the job and make these parts readily available for inspection by the Contracting Officer upon request. The Contractor shall obtain and maintain manufacturer's operating instructions and maintenance manuals on all new equipment installed by the Contractor. These documents shall become property of the Government and shall be turned into the Contracting Officer within five working days after completion or termination of the contract.

3.2 General Requirements

3.2.1 Operations, Maintenance & Repair

Introduction: This section of the contract includes but is not limited to the operation, maintenance, and repair of all facilities and equipment, including but not limited to air conditioning/refrigeration, ground water remediation, utility services, electrical distribution systems, central steam generating, water and wastewater plants, and all their connecting distribution systems; independent boilers and furnaces; all equipment and personnel elevators and lifting devices; and obstruction lights. All work shall be performed in accordance with the Annual Work Plan (AWP) and NPR 8831.2, NASA Facilities Maintenance Management Guide. The AWP will delineate the Baseline work and the additional work to be performed by IDIQ task in accordance with Clause B.2.

Within ten calendar days following award of this contract, the CO will provide the Contractor with a list of Facility Operations Managers (FOM).

Requirement: The Contractor shall furnish all labor, supervision, tools, materials, incidental engineering, transportation, and management necessary for the operations, maintenance, and repair of buildings and structures, related systems and equipment, and for the provision of other miscellaneous services issued under task orders. This requirement shall include, but not be limited to the following:

- (1) Perform PM and PT&I in accordance with existing requirements specified in the CMMS. Within 120 days of contract startup the Contractor shall propose any changes in the existing schedules to the CO for approval.
- (2) Implement all necessary work control procedures to receive, record, and ensure timely processing of work requirements, as well as to permit tracking of work in progress.
- (3) Plan, estimate, and schedule work to assure material, labor, and equipment are available to complete work requirements within the specified time limits and in conformance with the quality standards.
- (4) Assure all requests are logged daily and entered into the CMMS. Service Requests must be approved by the CO prior to implementation.
- (5) Schedule and arrange work so as to cause the least interference with normal occurrence of WFF business and mission, particularly, in areas critical to mission support activities. Only in cases involving the threat of personal injury or equipment failure, shall equipment in mission critical areas be shut down without prior approval of the CO. Whenever such emergencies occur, the CO shall be notified immediately. The Contractor shall notify the FOM of any work to be performed in a building under the manager's control that would tend to disrupt the conduct of normal Government business. The Contractor shall notify the FOM at least two working days in advance of such scheduled work. Notification shall include the location of the work, type of work to be done, and the estimated completion date. The Contractor shall reschedule any work that the CO deems necessary to avoid unacceptable disruptions in the Government's business.
- (6) Provide verbal status reports when requested by the CO. The status of any item of work must be provided within one hour of the inquiry during regular working hours, and within three hours after regular working hours.
- (7) Record in the CMMS database all work accomplished including a descriptive narrative and labor hours, material used and its cost, and completion date.
- (8) The Contractor's Quality Control (QC) Plan shall reflect and incorporate the quality processes and quality management practices submitted in the technical proposal. For Navy facilities establish, implement and maintain a proactive quality control program that includes the Navy inspection standard MO 322.
- (9) Regardless of the type of work, i.e., trouble call, service request, etc. the Contractor is responsible for sustaining feed back and direct contacts with all customers. To promote good customer relations, the Contractor shall strive to ensure that in each case there is a complete mutual understanding of each work order's description of work, cost estimate, scheduling and access

requirements; and that the quality level desired - and that to be delivered - are the same. The Contractor shall keep customers advised of any interference problems or necessary changes in the work, preferably in advance, and shall notify the customer and FOM within 10 days when the work is completed. A joint Contractor/FOM walk-through final inspection of the work is highly desirable in customer visible areas. The Contractor shall work with FOM's in accordance with paragraph 3.2.1(5).

- (10) Maintain the WFF Facilities Condition Assessment Program. This program is in an electronic database and shall be maintained up-to-date at all times. The Contractor shall utilize PT&I and PM data; operator, user, and FOM inputs; Construction of Facilities (CoF) and Center Funded Rehab & Mod program data; and specific facility condition inspections in keeping the assessment program current.
- (11) The AWP shall be submitted to the Facilities Engineering Branch with a copy submitted to the Contracting Officer by July 31st of each year.

<u>Standard</u>: Work control center established and operating in accordance with requirements. Work completion recorded in accordance with requirements. PM and PT&I performed in accordance with existing schedule. All work documented and accomplished within time specified in requirements.

3.2.2 Computerized Maintenance Management System (CMMS)

(Category 2)

<u>Introduction</u>: The existing WFF Computerized Maintenance Management System (CMMS) is manufactured by MAXIMO and consists of a set of computer software modules and equipment databases containing facility data with the capability to process the data for facilities maintenance management functions.

Requirement: The Contractor shall operate the GFE computer maintenance management system (CMMS) to provide work management/cost reports, manage the preventive maintenance program, record condition assessment data, accumulate necessary data and prepare Headquarters and WFF Metrics, enter and track trouble calls and other work such as repairs service request etc., and other on going reports. All maintenance data entered in the CMMS is Government property and must be turned over to the Contracting Officer within five calendar days after contract completion.

Standard: Project data entered in the CMMS per the requirement, and reports provided as requested. The Contractor shall comply with the NPG 8831.2, *NASA Facilities Maintenance Management Guide*.

3.3 Electric

3.3.1 High Voltage 12,470 - 7200 Volts

Introduction: Six CONECTIV Power Delivery aerial distribution power lines provide electricity to WFF. The operating voltage delivered by the electric utility is 12,470 – 7200 volts 3 phase 4-wire system. Five aerial distribution power lines provide electricity for the Main Base. One aerial distribution power line provides electricity for the Mainland and Island. The electrical distribution system at WFF is an aerial and underground system. The aerial section of the system at the Main Base consists of 2 electric utility poles and 1 steel structure. The aerial section of the system at the Mainland and Island consists of 2 electric utility poles. The remaining electric distribution system at both locations is an underground system either encased in raceways or is direct buried. The 15KV electrical distribution system is defined to include, but is not limited to: 15KV power VAC circuit breakers (to 1200 amps), protective relays, manually operated pad mounted switches (oil, air and SF6 gas type), pad mounted transformers, 15KV voltage regulators (to 12MVA), capacitors, 15KV single conductor cable, splices, terminations, lightning arresters, potential and current transformers, fuses and associated hardware.

Requirement: The Contractor shall:

- a. Comply with the Two Person Safety Rule. In the following situations the Contractor shall provide at least two (2) persons to work together one (1) person, trained to recognize electrical hazards, shall be delegated to watch the movements of the other(s) doing the work so that the other(s) can be warned if they get dangerously close to live conductors or perform other unsafe acts and so that they can be assisted by that person in the case of an accident:
 - (a) Work on energized overhead lines, bus and switchgear.
 - (b) Work in energized substations.
 - (c) Work at remote or isolated locations.
 - (d) Work at night or during inclement weather conditions.
 - (e) Work involving handling energized conductors or apparatus.
 - (f) Confined space entry.
- Provide for the operation, maintenance and repair (24 hours per day, 7 days per week) of the WFF 15KV electrical distribution system.
- c. Operate and maintain the electrical systems and their associated components as defined herein and as recommended by the manufacturer. Contractor personnel working with and around high voltage distribution systems shall be trained, experienced and certified to work with them. The workmanship for new construction and renovation shall meet, as a minimum, the requirements as specified by the National Electrical Code (NEC) and applicable IEEE standards. The Contractor shall schedule and obtain approval from the CO for electrical power outages.
- d. The overall quality of any repair, including materials, shall comply with the applicable SPECSINTACT and it's referenced codes and standards. Work shall be comparable to the original construction quality for the system or unit and shall be made in such a manner as to assure a safe and reliable electrical system.

e. Comply with the National Electric Code, NASA Goddard Safety and Health Program Plan (latest edition) and NASA Goddard Space Flight Center Electrical Safety Policy Manual.

<u>Standard</u>: Work performed on time in accordance with requirements and quality standards.

3.3.2 High Voltage 2400 - 1300 Volts

Introduction: The 2400--1300 volt distribution system is a 3 phase 4 wire underground (concrete encased raceways and direct buried) electrical distribution system that provides electricity to the airfield lighting system and 9 other sites located on the Main Base. The 2.4KV electrical distribution system is defined to include, but is not limited to: manually operated pad mounted switches (air type), pad mounted transformers, 5KV single conductor cable, splices, terminations, grounding, lightning arresters, constant current regulators, fuses, relays, control circuits and associated hardware.

Requirement: The Contractor shall:

- a. Comply with the following <u>Two-Person Safety Rule</u>. In the following situations the Contractor shall provide at least two (2) persons to work together one (1) person, trained to recognize electrical hazards, shall be delegated to watch the movements of the other(s) doing the work so that the other(s) can be warned if they get dangerously close to live conductors or perform other unsafe acts and so that they can be assisted by that person in the case of an accident:
 - (1) Work on energized overhead lines, bus and switchgear.
 - (2) Work in energized substations.
 - (3) Work at remote or isolated locations.
 - (4) Work at night or during inclement weather conditions.
 - (5) Work involving handling energized conductors or apparatus.
 - (6) Confined space entry.
- b. Provide for the operation, maintenance and repair (24 hours per day, 7 days per week) of the WFF 2.4KV electrical distribution system.
- c. Operate and maintain the electrical systems and their associated components as defined herein and as recommended by the manufacturer. Contractor personnel working with and around high voltage distribution systems shall be trained, experienced and certified to work with them. The workmanship for new construction and renovation shall meet, as a minimum, the requirements as specified by the National Electrical Code (NEC) and applicable IEEE standards. The Contractor shall schedule and obtain approval from the CO for electrical power outages.
- d. The overall quality of any repair, including materials, shall comply with the applicable SPECSINTACT and it's referenced codes and standards. Work shall be comparable to the original construction quality for the system or unit and shall be made in such a manner as to assure a safe and reliable electrical system.
- e. Comply with the National Electric Code, NASA Goddard Safety and Health Program Plan (latest edition) and NASA Goddard Space Flight Center Electrical Safety Policy Manual.

Standard: Work performed on time in accordance with requirements and quality standards.

3.3.3 Service Entrance Systems to 600 Volts

Introduction: These systems provide a current path for service entrance between the facility transformer secondary bushings or subfeed from another source/facility and the facility main disconnecting means. Service entrance systems are defined to include, but not limited to: air or sandwiched busduct, busway, cablebus, multiplex conductor assemblies, conduit/wire systems, busbar (straight lengths, elbows, tee's, tap boxes, etc.) tap boxes, power takeoffs, plugs, multi-conductor cable, housings, insulation, hangers and associated hardware.

Requirement: The Contractor shall:

- a. Provide for the operation, maintenance and repair of the service entrance systems located at WFF.
- b. Comply with the National Electric Code, NASA Goddard Safety and Health Program Plan (latest edition) and NASA Goddard Space Flight Center Electrical Safety Policy Manual.

Standard: Work performed on time in accordance with requirements and quality standards.

3.3.4 Main Disconnecting Means To 600 Volts

Introduction: The main disconnecting means is a device, group of devices, or other means by which the conductors of a circuit can be disconnected from their source of power. The main disconnecting means is comprised of 240/120, 208/120 and 480/277 volt systems. The main disconnecting means is defined to include, but not limited to: Switchboards (indoor and outdoor type), metal clad switchgear, motor control centers, load centers, meters, meter enclosures and wiring, molded case circuit breakers, fuses, receptacles, distribution panels and their components for voltage transformation, grounding components, conduit/wire systems, protective relays and associated hardware.

Requirement: The Contractor shall:

- a. Provide operations, maintenance and repair of all main disconnecting means located at WFF.
- b. Comply with the National Electric Code, NASA Goddard Safety and Health Program Plan (latest edition) and NASA Goddard Space Flight Center Electrical Safety Policy Manual.

Standard: Work performed on time in accordance with requirements and quality standards.

3.3.5 Secondary Distribution Equipment to 600 Volts

Introduction: The secondary distribution electrical equipment at WFF is comprised of 240/120, 208/120 and 480/277 volt distribution, protection and switching equipment. Secondary distribution equipment is defined to include, but not limited to: Switching, interruption, control, metering, protective and regulating devices, together with their supporting structures, conductors, electrical interconnections and accessories, grounding, bus, bus supports, heaters, protective devices, enclosures, busbars and terminal connections,

disconnects, fuses, contactors, motor overload relays, pilot and miscellaneous control devices, interlocks and associated hardware. Examples of these systems are switchboards, metal clad switchgear, motor control centers, load centers, meter panels or centers, molded case circuit breakers, distribution panels, metering, control circuits, circuit switching and system protection in the secondary electrical distribution system other than service entrance equipment.

Requirement: The Contractor shall:

- a. Provide for the operation, maintenance and repair of all secondary electrical distribution equipment located at WFF.
- b. Comply with the National Electric Code, NASA Goddard Safety and Health Program Plan (latest edition) and NASA Goddard Space Flight Center Electrical Safety Policy Manual.

Standard: Work performed on time in accordance with requirements and quality standards.

3.3.6 Emergency Power Backup Systems

<u>Introduction</u>: These are systems which serve as an emergency source for supplying electrical power loads in the event of a service interruption or loss of electrical power. Emergency power backup systems are defined to include, but not limited to: Storage batteries, stationary and mobile electric generator sets, uninterruptible power systems (UPS) (energy storage batteries, rectifiers, inverters and associated controls), transfer switching devices, relay synchronizing, protective and auxiliary devices, alarms, control devices and systems, conductors, wiring components, grounds and associated hardware.

Requirement: The Contractor shall:

- a. Provide for the operation, maintenance and repair of all emergency power backup systems located at WFF to insure that emergency backup power is available and operational upon failure or outage of the normal source.
- b. Maintain all fixed-mounted UPS systems. The Contractor shall inspect each UPS system every 90 calendar days. The inspection shall include battery fluid level, leaks, cracks, and deterioration, test for specific gravity and voltage output as well as system current and voltage harmonic content, harmonic content of the ground and neutral currents, noise levels, static switch operation, switch closing time, battery bank current, and voltage output. The Contractor shall test all items under a simulated emergency. All defective batteries shall be replaced. The Contractor shall retain all inspection and test reports and enter the data, in a format approved by the CO, into the CMMS within one (1) calendar day after the test so that the CO can retrieve the information easily and promptly.
- c. Comply with the National Electric Code, NASA Goddard Safety and Health Program Plan (latest edition), NASA Goddard Space Flight Center Electrical Safety Policy Manual and industry standards.

Standard: Work performed on time in accordance with requirements and quality standards.

3.3.7 Lightning Protection Systems

<u>Introduction</u>: These systems comprise the lightning protection systems for all buildings and structures including electrical substations, towers, masts and antennas. Lightning protection systems are defined to include, but not limited to: Arresters, air terminals, shielding systems, overhead static wires, ground wires, ground rods, grids, plates and associated hardware.

Requirement: The Contractor shall:

- a. Provide for the inspection, maintenance and repair of all WFF lightning protection systems semi-annually.
- b. Comply with National Electric Code, and ANSI/IEEE requirements.
- Facilities that use or store explosives shall be inspected and tested IAW NASA Safety Standard 1740.12, Safety Standard for Explosives, Propellants and Pyrotechnics

Standard: Work performed on time in accordance with requirements and quality standards.

3.3.8 Obstruction and Warning Lighting Systems

Introduction: These systems comprise the aircraft and watercraft warning lighting system on towers, antennas, masts and bridges located at WFF. Obstruction and warning lighting systems are defined to include, but not limited to lamps, reflectors, globes, ballasts, timers, controls, fixture mounting systems, conduits, wiring and associated hardware.

Requirement: The Contractor shall:

- Provide for the operation, maintenance and repair of all WFF obstruction and warning lighting systems.
- b. Comply with National Electric Code, and FAA requirements.

<u>Standard</u>: Work performed on time in accordance with requirements and quality standards.

3.3.9 Airfield Lighting System. 2400 - 1300 Volts

Introduction: The airfield lighting system provides lighting for aircraft operations. The airfield lighting system is defined to include, but not limited to: Taxiway lighting, runway lighting, REIL lighting (runway end identification lights), PAPI lighting (precision approach path indicator), runway identification signs, vehicle warning crossing lights, recessed runway and taxiway lighting, rotating beacon, tetrahedron, 5KV single conductor cable, metal transformer vaults and covers, transformers, lighting fixture mounts, splices, connectors, constant current regulators, arresters, switches, control systems and wiring, relays and associated hardware.

- a. Provide for the operation, maintenance and repair of the airfield lighting system.
- Comply with the National Electric Code, NASA Goddard Safety and Health Program Plan (February 1997) and NASA Goddard Space Flight Center Electrical Safety Policy Manual, FAA requirements.

<u>Standard</u>: Work performed on time in accordance with requirements and quality standards.

3.3.10 Exterior Lighting Systems to 600 Volts

Introduction: The exterior lighting systems provide lighting for: Roadways, parking areas, aircraft hangers, building entrances/exits, safety, and security located at Wallops Flight Facility. Exterior lighting systems is defined to include, but not limited to: lamps, reflectors, lens, fixture mounting assemblies, ballasts, poles (concrete and wood), conductors, conduit, control devices (photocells and timing devices), circuit breakers, fuses, switches, contactors and associated hardware.

Requirement: The Contractor shall:

- a. Provide for the operation, maintenance and repair of all WFF exterior lighting systems.
- b. Comply with the National Electric Code, NASA Goddard Safety and Health Program Plan (February 1997) and NASA Goddard Space Flight Center Electrical Safety Policy Manual.
 Standard: Work performed on time in accordance with requirements and quality standards.

3.3.11 Interior Lighting Systems to 600 Volts

Introduction: These systems comprise the building or facility interior general area lighting from the panel board to the end user. The interior lighting system is defined to include, but not limited to: fixtures, lamps, ballasts, reflectors, lens, diffusers, fuses, switches, circuit breakers, mounting assemblies, conductors, conduit, controls and associated hardware.

Requirement: The Contractor shall:

- a. Provide for the operation, maintenance and repair of all WFF interior lighting systems.
- Comply with the National Electric Code, NASA Goddard Safety and Health Program Plan (February 1997) and NASA Goddard Space Flight Center Electrical Safety Policy Manual.

Standard: Work performed on time in accordance with requirements and quality standards.

3.3.12 Emergency Lighting Systems to 600 Volts

<u>Introduction</u>: These systems provide life safety lighting including, but not limited to: emergency lighting units, exit lighting, stairwell and egress lighting. Emergency lighting systems must energize automatically upon loss of normal utility power or normal lighting. Light levels must be maintained to provide enough illumination to allow safe egress from the areas involved. Emergency lighting systems are defined to include, but not limited to: lamps, reflectors, ballasts, lens, diffusers, emergency power supplies, batteries, conduit, wiring and associated hardware.

Requirement: The Contractor shall:

- a. Provide the operation, maintenance and repair of all WFF emergency lighting systems/fixtures.
- b. Comply with the National Electric Code, NASA Goddard Safety and Health Program Plan (February 1997) and NASA Goddard Space Flight Center Electrical Safety Policy Manual.

<u>Standard</u>: Work performed on time in accordance with requirements and quality standards.

3.4 Electronic Control Systems

3.4.1 Fire Detection System

Introduction: The alarm systems for fire detection are located at various facilities through out Wallops Flight Facility (WFF). Fire detection systems are defined to include, but are not limited to: fire protection system central alarm receiver, interface devices, fire alarm control panels, initiating devices, audible alarm devices, visual alarm devices, signaling circuitry, cable, auxiliary relays and devices, annunciator panels and associated hardware.

Requirement: The Contractor shall:

- a. Provide 24 hours per day, 7 days per week operation, with maintenance and repair of fire detection systems during normal working hours. The Contractor shall respond to after hour trouble calls as required by the National Fire Protection Association Code (NFPA).
- b. Comply with all applicable NFPA, National Electric Code and NASA Safety Standard for Fire Protection (NSS 1740.11)

Standard: Work performed on time in accordance with requirements and quality standards.

3.4.2 Fire Protection Systems.

<u>Introduction</u>: The facility water, halon, carbon dioxide and FM-200 fire protection systems are located in various facilities through out WFF. Fire protection systems include, but are not limited to: piping, valves, sprinkler heads, booster pumps, wet pipe sprinkler systems, dry pipe sprinkler systems, air compressors, deluge systems, flow switches, tamper switches, pipe hangers and supports, fire hydrants, diesel and electric fire pumps and associated hardware.

- a. Provide 24 hours per day, 7 days per week operation, with maintenance and repair of fire protection systems during normal working hours. The Contractor shall respond to after hour trouble calls as required by the NFPA Code.
- Comply with all applicable NFPA, National Electric Code and NASA Safety Standard for Fire Protection (NSS 1740.11)

Standard: Work performed on time in accordance with requirements and quality standards.

3.4.3 Security Systems

<u>Introduction</u>: The alarm systems for security are located in various facilities through out WFF. Systems include, but are not limited to: power supplies, secure access switches, motion detectors, balance magnetic switches, capacitance detectors, vibration detectors, control panels, raceways, wiring and associated hardware.

Requirement: The Contractor shall:

- a. Provide 24 hours per day, 7 days per week operation, with maintenance and repair of security systems during normal working hours. The Contractor shall respond to after hour trouble calls as required by the NASA Security Handbook (1620.3).
- b. Comply with all applicable National Electric Code and NASA Security Handbook (1620.3) requirements.

Standard: Work performed on time in accordance with requirements and quality standards.

3.4.4 Energy Management and Control System (EMCS) (Category 2)

Introduction: The energy management and control system (EMCS) is a distributed network of stand alone controls, which interface with two control consoles for monitoring and operator adjustment. The system is used to control and monitor a wide variety of equipment and processes. The EMCS central consoles serve as the central control point for real time monitoring, operation and management of facility systems and utilities throughout WFF. The EMCS is Johnson Controls Inc. METASYS, 9.01 version. The EMCS is connected to and controls building HVAC systems and monitors potable wells, sewage lift stations and electrical power. The system is defined to include, but not limited to: Network control modules, modern racks, RS485 racks, DX-9100 controllers, XT-9100 controllers, unitary controllers, air handling unit controllers, variable air volume controllers, DS-8500 controllers, electric power monitors, circuit integrators, radar frequency controllers, keyboards, monitors, printers, tape/disk drives, power protection devices, software, instrumentation, signal cables/wiring, telecommunications links, and associated equipment.

- a. Provide 24 hours per day, 7 days per week operation, with maintenance and repair of the EMCS during normal working hours. The Contractor shall respond to after hour trouble calls in accordance with Section 1.1.2 (Work Reception and Control). The Contractor shall provide the necessary support for factory upgrading of software and the addition of monitoring/control points in new facilities or systems throughout WFF. The Contractor shall provide staffing for the operation of all consoles, perform database management, backup to protect the software, real time management and notification of site utility outages/activities.
- b Comply with NPG 8831.2, NASA Facilities Maintenance Management Guide.

Standard: Work performed on time in accordance with requirements and quality standards.

3.5 Mechanical

3.5.1 Heating, Ventilation, & Air Conditioning, and Refrigeration

Introduction: Heating, ventilation, & air conditioning (HVAC) and refrigeration systems include various types of equipment ranging from small water coolers to a 600-TON chill water loop system. The Contractor shall maintain all exhaust fans, which include but are not limited to those fans monitored by GSFC Industrial Hygienist. The inventory consists of more than 1200 serviceable air conditioning and refrigeration units and components that include but are not limited to: Air handing units, package a/c units, heat pumps, window a/c units, cold food bars, ice machines, refrigerators, chillers, pumps, dehumidifiers, humidifiers, motors, electronic air cleaners, freezers, control panels, cooling towers, exhaust fans and air-compressors.

Requirement: The Contractor shall:

- a. Maintain, service and repair all commercial and domestic air conditioning systems, units, and associated components relative to providing exhaust, climate control and/or refrigeration.
- b. Comply with all Federal requirements in maintaining, servicing, repairing and disposing of equipment containing CFC and HCFC (ozone depleting substances) refrigerants.
- c. Comply with equipment manufacturer specifications, National Building/Electrical/Plumbing Codes, Federal, NASA and local regulations.

Standard: Work performed on time in accordance with requirements and quality standards.

3.5.2 Mobile Cranes & Rigging

<u>Introduction</u>: Mobile Cranes include but are not limited to hydraulic rough terrain and truck cranes up to 65 ton capacity and conventional track crawler cranes up to 100 ton capacity.

- a. Perform specialized rigging and load lifting in support of O&M requirements and customer/tenant requirements.
- Also perform routine inspection, testing, maintenance, repairs and general preventive maintenance procedures on mobile and rigging equipment during normal working hours and on 24-hour call-in basis.
- c. Comply with the NASA Safety Standard for Lifting Devices and Equipment, NSS/GO-1740.9 and all applicable OSHA, ANSI and PCSA requirements.

Standard: Work performed on time in accordance with requirements and quality standards.

3.5.3 Fixed Cranes

<u>Introduction</u>: Fixed cranes include all overhead bridge, monorail, and chain hoists permanently installed in a fixed location.

Requirement: The Contractor shall:

- a. Perform specialized rigging and load lifting in support of O&M requirements and customer/tenant requirements.
- Perform routine inspection, testing, maintenance, repairs and general preventive maintenance procedures on all WFF fixed cranes during normal working hours and on 24 hour call-in basis.
- c. Comply with the NASA Safety Standard for Lifting Devices and Equipment, NSS/GO-1740.9 and all applicable OSHA standards.

<u>Standard</u>: Work performed on time in accordance with requirements and quality standards.

3.5.4 Elevators

Introduction: This section includes all personnel and service elevators located at WFF.

Requirement: The Contractor shall:

- a. Maintain, service, perform P/M and inspect all elevators at WFF.
- b. Comply with the NASA Safety Standard for Lifting Devices and Equipment, NSS/GO-1740.9, manufacturers' recommendations, OSHA and NASA safety standards.

Standard: Work performed on time in accordance with requirements and quality standards.

3.5.5 Heavy Equipment

Introduction: The Contractor shall provide operations and maintenance of specialized heavy equipment including but not limited to: Backhoes, front end loaders, excavators, bulldozers, motor graders, runway sweepers, vibratory compactors, dump trucks with snow plow and spreader capabilities and other various construction type equipment.

Requirement: The Contractor shall:

- a. Operate WFF specialized heavy equipment. The Contractor shall provide general equipment maintenance and repairs. This requirement may occur during normal working hours, on 24 hour call in basis, and at on-site and off-site projects.
- b. All equipment shall be maintained and inspected in conformance with all applicable industry and manufacturer standards and recommendations. Equipment shall be operated using the utmost safety precautions. Unscheduled response time shall be in accordance with trouble call requirements.

<u>Standard</u>: Work performed on time in accordance with requirements and quality standards.

3.5.6 Welding

Introduction: Welding activities include but are not limited to welding of carbon steel, aluminum and stainless steel. Work is performed in the field and in the shop area.

Requirement: The Contractor shall:

- Provide welding services as required for the operation and maintenance of WFF and for tenants/customers.
- Comply with all applicable OSHA and ANSI safety standards. The Contractor shall supply welding services up to and including Section IX of the ASME Boiler and Pressure Code.

Standard: Work performed on time in accordance with requirements and quality standards.

3.6 Other Facility Systems

3.6.1 Structural

<u>Introduction</u>: Other facilities include the interior and exterior of buildings, and miscellaneous facilities components. Components include but are not limited to pavement, sidewalks, towers, concrete pads, parking areas, fencing, and retaining walls.

Maintain and repair facilities systems and components. Work performed shall ensure safe, reliable, and available facilities and shall comply with the NPG 8831.2, NASA Facilities Maintenance Management Handbook and BOCA standards.

- a. Carpentry: Carpentry work shall include the internal and external maintenance and repairs of approximately 500 structures and components. This includes, but is not limited to, doors, windows, floors, ceilings, finish trim, hardware, roofs, and exterior finishes.
- b. Masonry: Masonry work shall include the interior and exterior repair and maintenance of approximately 500 structures and components and approximately 650,000 sq. yds. of paved surfaces. This includes, but is not limited to, concrete pads, sidewalks, brick structures, foundations, pavement, concrete cutting and runway repair.
- c. Painting/Finishing/Coating: Painting work shall include, but is not limited to, the interior and exterior of approximately 500 structures and components, and 15 towers. Work includes preparation of surfaces, application of a wide variety of coatings and finishes, and fabrication of signage. Coatings shall be applied to walls, floors, ceilings, trim, roofs, building exteriors, runway and parking surfaces.
- d. Cabinetmaking: The cabinetmaker shall fabricate a wide variety of custom cabinets and building components. These shall include, but not limited to, desks, countertops and cabinets, frames, plaques, bookends, and custom built jogs and cases.
- e. Sheetmetal: The sheetmetal mechanic shall fabricate and modify sheetmetal components. This work is in support of all trades and includes but is not limited to ductwork flashings, trims, ventilation assemblies, and structural components.

Standard: Work performed on time in accordance with requirements and quality standards.

3.6.2 Mechanical Operated Doors

Introduction: There are 4 sets of Aircraft Hanger Doors and 175 mechanically operated overhead doors located at WFF.

Requirement: The contractor shall maintain, service, perform PM, and repair or replace damaged equipment or components on all mechanical operated doors. The PM and service shall be performed on a regular basis as determined by the manufacturer's requirements.

Standard: Work performed on time and in accordance with requirements and quality standards.

3.6.3 Air Compressors (non-HVAC type)

<u>Introduction</u>: There are specialized air compressors and dryer systems used at WFF to provide, but not limited to, regular shop air, paint spraying air, pneumatic controls, hydraulic controls, etc.

Requirement: The contractor shall provide PM procedures, maintenance and repairs and replacement of units or components as needed to maintain compressor and dryer systems in working order.

<u>Standard</u>: Work shall be performed to meet all ANSI and NASA standards for air compressor systems and shall meet quality standards.

3.6.4 Seawall Maintenance and Repair (IDIQ)

Introduction: Wallops Island has approximately 4 miles of armor stone seawall.

Requirement: The contractor shall use heavy equipment as needed to maintain and repair the seawall and seawall access roads.

Standard: Work shall be performed on time and in accordance with requirements and quality standards.

3.7 Utilities

3.7.1 Central Steam Plant

Introduction: The central steam plant houses 3 boilers ranging from 500HP to 700HP providing steam to 29 buildings. Equipment to be maintained includes but is not limited to boilers, pumps, valves, steam lines, etc. Historically, the after hours trouble desk and EMCS monitoring terminal has been located in the Central Heating Plant.

Requirement: The Contractor shall:

- Operate the central steam plant on a 24 hour per day, 7days per week schedule for approximately 2l5 days per year from early fall to late spring.
- b Furnish all labor, supervision, tools, materials, transportation, and management necessary for the operation, monitoring, preventive maintenance, trouble calls, repair and overhaul of the Central Steam Plant (Building D-8) equipment, associated steam distribution and condensate return systems.
- Comply with all codes and regulations prescribed by the Navy Facilities Engineering Command, Atlantic Division, in NAVFAC-MO-205, Central Heating and Steam Electric Generating Plants, Volumes I through 5; and NAVFAC-MO-322, Inspection for Maintenance of Public Works and Public Utilities, Volume I shall apply.
- d Comply with the WFF Boiler Plant O&M Manual.
- e. Monitor the fuel oil storage tanks daily for leaks, spills or repairs.

Standard: Work performed on time in accordance with requirements and quality standards.

3.7.2 Stand Alone Heating Plants

Introduction: Stand alone heating plants consist of small stand alone boilers and hot air furnaces. These include but are not limited to hot air furnaces, boilers, pumps and associated piping, fuel tank alarm systems, and burners.

Requirement: The Contractor shall:

- a. Continuously inspect, monitor, maintain, operate, and repair the 48 boilers and hot air furnaces located in various buildings at WFF.
- b. Comply with the manufacturer's recommendations, O&M manuals, P/M programs and procedures, and current predictive testing technology.
- c. Monitor the fuel oil storage tanks daily for leaks, spills or repairs.

Standard: Work performed on time in accordance with requirements and quality standards.

3.7.3 Water Plants

<u>Introduction</u>: Two water plants supply potable water for WFF. The water plants include but are not limited to pumps, high rise tanks, potable water, fire pumps, chlorine, flow meters and charts, testing, and state certification

Requirement: The Contractor shall:

- a. Operate and maintain the water plants 24 hours per day, 7 days per week, 365(366) days per year.
- b. Operate the water plants in accordance with the current Virginia Dept. of Health permits for the Main base, Mainland and Island and comply with all local, state and federal regulatory requirements.

Standard: Work performed on time in accordance with requirements and quality standards.

3.7.4 Wastewater Treatment Plants

Introduction: There are two wastewater plants. The wastewater treatment plant at the WFF Main Base also serves the Island by way of an interconnecting forced main. The Contractor shall also operate and maintain the wastewater treatment plant at the Chincoteague Coast Guard Station, Chincoteague Island, Virginia. The wastewater plants are defined to include but are not limited to pumps, lift stations, bi-filter, digester, grit remover, cummunators, primary clarifier, flow meters and charts.

Requirement: The Contractor shall:

- a. Operate and maintain the wastewater treatment plants and collection system 24 hours per day, 7 days per week, 365(366) days per year.
- Operate and maintain the wastewater treatment plants in accordance with the State approved O&M manual, the current VPDES permit, and comply with all local, state, and federal regulatory requirements.

Standard: Work performed on time in accordance with requirements and quality standards.

3.7.5 Ground Water Remediation

<u>Introduction</u>: The ground water remediation system at WFF is defined to include but is not limited to pumps, tanks, piping, filters, clarifiers and chemical treatment equipment.

Requirement: The Contractor shall:

- a. Operate, maintain, perform compliance sampling and daily monitoring of all groundwater remediation systems, assuring replenishment of consumable supplies, such as chemicals and filters.
- b. Comply with the Corrective Action Plan submitted to the state of Va. by NASA.
- c. Comply with federal, state, and local environmental laws, regulations, directives, and rules pertaining to ground water remediation.

Standard: Work performed on time in accordance with requirements and quality standards.

3.7.6 Aviation Fuel Farm

<u>Introduction:</u> The aviation fuel farm supplies fuel for all Wallops Aircraft. The Contractor shall be responsible for monitoring and performing all maintenance and repairs at WFF. The aviation fuel farm consists of pumps, valves, piping and other associated components.

Requirement: The Contractor shall:

Perform maintenance (including preventative maintenance) and repairs on all fuel farm equipment.

- a. Perform maintenance (including preventative maintenance) and repairs on all fuel farm equipment.
- b. Comply with NASA, Federal, State, and local environmental laws, regulations, directives, and rules pertaining to aviation fuel farms.

<u>Standard:</u> The activities will be conducted in accordance with approved work instructions and in conjunction with the Fuel Farm Manager. All services will be performed in accordance with paragraph 420 of the GSFC-WFF Airport Operations Manual. Tasks performed in accordance with time frames, quality standards and requirements specified, and documentation prepared as required.

3.7.7 RESERVED

3.7.8 Backflow Prevention

Introduction: There are 99 sites where backflow preventors are located at WFF.

Requirement: The Contractor shall:

a. Perform maintenance and testing on all backflow preventors at WFF in accordance with the PM program.

b. Comply with federal, Virginia Dept of Health, and local environmental laws, regulations, directives, and rules pertaining to backflow prevention.

<u>Standard</u>: Work performed on time in accordance with requirements and quality standards.

3.7.9 Fire Protection Systems

Introduction: There are 3 – 10k gpm pumps on the Mainbase and 1 - 750 gpm on Wallops Island.

Requirement: The contractor shall:

- Perform maintenance and testing of all fire pumps in accordance with the established PM (Preventative Maintenance) program.
- Comply with Federal, Commonwealth of Virginia Dept. of Health, and local environmental laws, regulations, directives, and rules pertaining to fire pumps.

Standard: Work performed on time in accordance with requirements and quality standards.

3.8 Change of Occupancy Services

(IDIQ)

<u>Introduction</u>: Change of occupancy of Navy family housing units includes but is not limited to all maintenance, repair/replacement and other work as required to make a vacant family housing unit ready for the next resident. Work may include replacement of floor coverings.

Requirement: The Contractor shall:

- a. Provide change of occupancy services beginning at 8:00 a.m. on the first Contractor workday following the final termination inspection by the Government. Change of occupancy services shall include interior painting, plumbing, HVAC, electrical, carpentry and making necessary repairs/replacements. The Contractor shall also repair or replace damaged, inoperative, or missing interior accessories including but not limited to paper holders, door bells, soap trays, smoke detectors, door stops, light fixtures, globes and mini-blinds.
- Comply with the NPG 8831.2, NASA Facilities Maintenance Management Guide, and BOCA standards. All work shall be completed within five (5) Contractor working days after the change of occupancy period begins.

Standard: Work performed on time in accordance with requirements and quality standards.

3.9 Pest/Nuisance Vegetation Management and Animal Control

3.9.1 Pest Management

<u>Introduction</u>: Control of pests and nuisance vegetation at WFF includes but is not limited to control of weeds on sidewalks, runways and paved surfaces and pests (insect type) in or around the interior and exterior of facilities.

- a. Provide an integrated pest and vegetation control plan to control pests and nuisance vegetation at WFF, and shall implement approved plan.
- b. All pesticides (herbicides, insecticides, etc.) used by the Contractor shall be registered with the EPA. No pesticides are to be applied without the prior approval of the Navy Pest Management Coordinator (Navy areas) or the CO (NASA areas). All pesticide usage shall be in strict conformance with label directions. The Contractor shall maintain a label book of pesticides used and have it readily available for the CO's inspection at all times.
- c. Comply with all applicable Federal, State and NASA safety standards for the application, storage and disposal of pesticides and herbicides.

Standard: Work performed on time in accordance with requirements and quality standards.

3.9.2 Animal Control

Introduction: Animal control, in this section of the SOW, defines non-insects such as deer, snakes, birds, raccoons, skunks, cats, dogs, and any and all other rodents or animals.

Requirement: The Contractor shall:

- a. Be responsible for the general control of the "natural inhabitants of the WFF" and other unleashed animals when they become injured, entrapped, or become a nuisance or hazard to WFF employees and visitors.
- b. Coordinate with local animal authorities in the capture and removal of animals and report to the Government of all actions taken.

<u>Standard</u>: All requirements are performed accurately, in a timely manner, and in accordance with all references, directives, and SOPs.

3.10 Salvageable Materials and Debris

Introduction: Excess salvageable equipment and material includes but is not limited to obsolete or damaged equipment and materials which have salvageable value as determined by the Government.

Requirement: The Contractor shall:

- a. Dispose of all excess salvageable equipment and material in accordance with GSFC Handbook 4300.6. The Contractor shall procure a permit from the local Accomack County Landfill to discard debris related to work at WFF.
- b. Comply with all applicable NASA, Federal, State, and local waste disposal laws and regulations.

Standard: Work performed on time in accordance with requirements and quality standards.